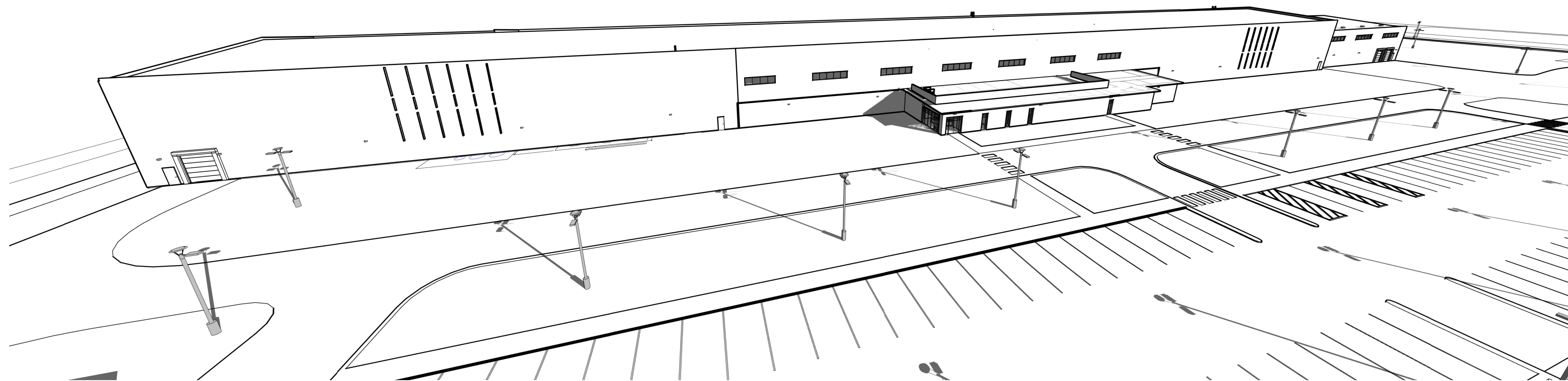


CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO



CONSTRUCTION DOCUMENTS - PROGRESS DRAFT MARCH 25, 2022

DRAWING INDEX

GENERAL INFORMATION

G-001	COVER SHEET
G-002	SYMBOLS, ABBREVIATIONS & PROJECT LOCATION
G-003	PHASING PLAN
G-102	CODE PLAN

CIVIL

C-100	OVERALL GRADING PLAN
C-101	GRADING PLAN
C-102	GRADING PLAN
C-103	GRADING PLAN
C-104	GRADING PLAN
C-105	GRADING PLAN
C-200	OVERALL UTILITY PLAN
C-201	UTILITY PLAN
C-202	UTILITY PLAN
C-300	WATER UTILITY SITE LAYOUT
C-301	PROCESS DIAGRAM
C-302	FIRE PROTECTION CIVIL DETAILS
C-303	FIRE PROTECTION CIVIL DETAILS
C-304	FIRE PROTECTION PUMP HOUSING
C-305	ALTITUDE VALVE STATION STRUCTURAL DETAIL
C-306	ALTITUDE VALVE STATION DETAIL
C-307	THRUST TIE DETAIL
C-308	STORM INLET DETAIL
C-350	PUMP BUILDING SLAB DETAILS
C-400	OVERALL PAVING PLAN
C-401	PAVING PLAN
C-402	PAVING PLAN

STRUCTURAL

S-000	COVER SHEET
S-001	ABBREVIATIONS AND LEGEND
S-002	GENERAL STRUCTURAL NOTES
S-003	GENERAL STRUCTURAL NOTES
S-100	OVERALL PHASING PLAN
S-101	FOUNDATION PLAN - AREA A COMPOUND
S-102	FOUNDATION PLAN - AREA B FACTORY
S-103	FOUNDATION PLAN - AREAS C & D FACTORY
S-104	FOUNDATION PLAN - AREA E FACTORY
S-105	FOUNDATION PLAN - AREA F WAREHOUSE
S-106	FOUNDATION PLAN - AREAS H & I MECHANICAL
S-107	FOUNDATION PLAN - AREA G ADMIN
S-111	ROOF PLAN - AREA A COMPOUND
S-112	ROOF PLAN - AREA B FACTORY
S-113	ROOF PLAN - AREAS C & D FACTORY
S-114	ROOF PLAN - AREA E FACTORY
S-115	ROOF PLAN - AREA F WAREHOUSE
S-116	ROOF PLAN - AREAS H & I MECHANICAL
S-117	ROOF PLAN - AREA G ADMIN
S-121	INTERMEDIATE FRAMING PLANS
S-201	BUILDING SECTIONS
S-202	BUILDING SECTIONS
S-203	BUILDING SECTIONS
S-204	BUILDING SECTIONS
S-205	WAREHOUSE BUILDING SECTIONS
S-206	MECHANICAL BUILDING SECTIONS
S-207	ADMINISTRATION BUILDING SECTIONS
S-211	FRAMING ELEVATIONS
S-212	FRAMING ELEVATIONS
S-221	BRACED FRAME ELEVATIONS
S-222	WAREHOUSE BRACED FRAME & TRUSS ELEVATIONS
S-301	FOUNDATION SECTIONS
S-501	FRAMING SECTIONS AND DETAILS
S-511	BRACED FRAME DETAILS
S-601	SCHEDULES
S-701	TYPICAL CONCRETE DETAILS
S-711	STEEL CONNECTION DETAILS
S-712	TYPICAL FRAMING DETAILS
S-731	TYPICAL COLD-FORMED DETAILS

ARCHITECTURAL

AS-101A	SITE PLAN - PHASE II
AS-101B	SITE PLAN - PHASE II
AS-102	ENLARGED SITE PLAN
AS-103	ENLARGED SITE PLAN
AS-104	ENLARGED SITE PLAN
AS-105	ENLARGED SITE PLAN
AS-106	ENLARGED SITE PLAN
AS-110	SITE DETAILS
A-100	FLOOR PLAN
A-101	FLOOR PLAN - AREA A COMP
A-102	FLOOR PLAN - AREA B FACTORY
A-103	FLOOR PLAN - AREA C FACTORY
A-104	FLOOR PLAN - AREA D FACTORY
A-105	FLOOR PLAN - AREA E FACTORY
A-106	FLOOR PLAN - AREA F WAREHOUSE
A-107	FLOOR PLAN - AREA G ADMIN
A-108	FLOOR PLAN - AREA H MECH
A-109	FLOOR PLAN - AREA I MECH
A-110	DIMENSION FLOOR PLAN - OVERALL
A-111	DIMENSION FLOOR PLAN - AREA A
A-112	DIMENSION FLOOR PLAN - AREA B
A-113	DIMENSION FLOOR PLAN - AREA C
A-114	DIMENSION FLOOR PLAN - AREA D
A-115	DIMENSION FLOOR PLAN - AREA E
A-116	DIMENSION FLOOR PLAN - AREA F WAREHOUSE
A-117	DIMENSION FLOOR PLAN - AREA G ADMIN
A-118	DIMENSION FLOOR PLAN - AREA H
A-119	DIMENSION FLOOR PLAN - AREA I
A-121	PARTITION TYPES
A-130	REFLECTED CEILING PLAN
A-131	CEILING DETAILS
A-141	ROOF PLAN - ENLARGED
A-142	ROOF PLAN - ENLARGED
A-143	ROOF PLAN - ENLARGED
A-144	ROOF DETAILS
A-201	EXTERIOR ELEVATIONS
A-202	EXTERIOR ELEVATIONS
A-203	EXTERIOR ELEVATIONS
A-205	PERSPECTIVE VIEWS - PHASE III BUILD-OUT
A-301	BUILDING SECTIONS
A-302	WALL SECTIONS
A-303	WALL DETAILS
A-304	WALL DETAILS
A-401	ENLARGED PLANS & INTERIOR ELEVATIONS
A-402	ENLARGED PLANS & INTERIOR ELEVATIONS
A-403	SIGNAGE
A-404	SIGNAGE
A-501	MILLWORK
A-601	DOOR SCHEDULE
A-603	OPENING TYPES
I-102	FINISH PLAN - AREA G ADMIN
I-102	ROOM FINISH SCHEDULE

PLUMBING

FX001	FIRE PROTECTION LEGEND
FX101	FIRE PROTECTION FLOOR PLAN
FX102	FIRE PROTECTION FLOOR PLAN - AREA A COMP.
FX103	FIRE PROTECTION FLOOR PLAN - AREA B FACTORY
FX104	FIRE PROTECTION FLOOR PLAN - AREA C FACTORY
FX105	FIRE PROTECTION FLOOR PLAN - AREA D FACTORY
FX106	FIRE PROTECTION FLOOR PLAN - AREA E FACTORY
FX107	FIRE PROTECTION FLOOR PLAN - AREA F WAREHOUSE
FX108	FIRE PROTECTION FLOOR PLAN - AREA G ADMIN
FX109	FIRE PROTECTION FLOOR PLAN - AREA H MECH
FX110	FIRE PROTECTION FLOOR PLAN - AREA I MECH
FX111	FIRE PROTECTION FLOOR PLAN - AREA WWTP
P-001	PLUMBING LEGEND
PG101	PIPED GASES FLOOR PLAN
PG102	PIPED GASES FLOOR PLAN - AREA A COMP.
PG103	PIPED GASES FLOOR PLAN - AREA B FACTORY
PG104	PIPED GASES FLOOR PLAN - AREA C FACTORY
PG105	PIPED GASES FLOOR PLAN - AREA D FACTORY
PG106	PIPED GASES FLOOR PLAN - AREA E FACTORY
PG107	PIPED GASES FLOOR PLAN - AREA F WAREHOUSE
PG108	PIPED GASES FLOOR PLAN - AREA G ADMIN
PG109	PIPED GASES FLOOR PLAN - AREA H MECH
PG110	PIPED GASES FLOOR PLAN - AREA I MECH
PG111	PIPED GASES FLOOR PLAN - AREA WWTP
PL101	WASTE & VENT FLOOR PLAN
PL102	WASTE & VENT FLOOR PLAN - AREA A COMP.
PL103	WASTE & VENT FLOOR PLAN - AREA B FACTORY
PL104	WASTE & VENT FLOOR PLAN - AREA C FACTORY
PL105	WASTE & VENT FLOOR PLAN - AREA D FACTORY
PL106	WASTE & VENT FLOOR PLAN - AREA E FACTORY
PL107	WASTE & VENT FLOOR PLAN - AREA F WAREHOUSE
PL108	WASTE & VENT FLOOR PLAN - AREA G ADMIN
PL109	WASTE & VENT FLOOR PLAN - AREA H MECH
PL110	WASTE & VENT FLOOR PLAN - AREA I MECH
PL111	WASTE & VENT FLOOR PLAN - AREA WWTP
PL120	PLUMBING ROOF PLAN
PL121	PLUMBING ROOF PLAN - AREA A COMP.
PL122	PLUMBING ROOF PLAN - AREA B FACTORY
PL123	PLUMBING ROOF PLAN - AREA C FACTORY
PL124	PLUMBING ROOF PLAN - AREA D FACTORY
PL125	PLUMBING ROOF PLAN - AREA E FACTORY
PL126	PLUMBING ROOF PLAN - AREA F WAREHOUSE
PL127	PLUMBING ROOF PLAN - AREA G ADMIN
PL-128	PLUMBING ROOF PLAN - AREA H MECH
PL-129	PLUMBING ROOF PLAN - AREA I MECH
PL-130	PLUMBING ROOF PLAN - AREA WWTP
PP101	PRESSURE PIPING FLOOR PLAN
PP102	PRESSURE PIPING FLOOR PLAN - AREA A COMP.
PP103	PRESSURE PIPING FLOOR PLAN - AREA B FACTORY
PP104	PRESSURE PIPING FLOOR PLAN - AREA C FACTORY
PP105	PRESSURE PIPING FLOOR PLAN - AREA D FACTORY
PP106	PRESSURE PIPING FLOOR PLAN - AREA E FACTORY
PP107	PRESSURE PIPING FLOOR PLAN - AREA F WAREHOUSE
PP108	PRESSURE PIPING FLOOR PLAN - AREA G ADMIN
PP109	PRESSURE PIPING FLOOR PLAN - AREA H MECH
PP110	PRESSURE PIPING FLOOR PLAN - AREA I MECH
PP111	PRESSURE PIPING FLOOR PLAN - AREA WWTP
PS101	PLUMBING SITE PLAN
P-501	PLUMBING DETAILS
P-701	PLUMBING SCHEDULES

MECHANICAL

M-001	MECHANICAL LEGEND
MH101	HVAC FLOOR PLAN
MH102	HVAC FLOOR PLAN - AREA A COMP.
MH103	HVAC FLOOR PLAN - AREA B FACTORY
MH104	HVAC FLOOR PLAN - AREA C FACTORY
MH105	HVAC FLOOR PLAN - AREA D FACTORY
MH106	HVAC FLOOR PLAN - AREA E FACTORY
MH107	HVAC FLOOR PLAN - AREA F WAREHOUSE
MH108	HVAC FLOOR PLAN - AREA G ADMIN
MH109	HVAC FLOOR PLAN - AREA H MECH
MH110	HVAC FLOOR PLAN - AREA I MECH
MH111	HVAC FLOOR PLAN - AREA WWTP
MH120	MECHANICAL ROOF PLAN
M-301	MECHANICAL SECTIONS
M-501	MECHANICAL DETAILS
M-701	MECHANICAL SCHEDULES
M1001	MECHANICAL CONTROLS LEGEND
M1601	MECHANICAL CONTROLS

ELECTRICAL

E-001	ELECTRICAL LEGEND
ES101	ELECTRICAL SITE PLAN
EJ102	RECEPTACLE FLOOR PLAN - AREA A COMP.
EJ103	RECEPTACLE FLOOR PLAN - AREA B FACTORY
EJ104	RECEPTACLE FLOOR PLAN - AREA C FACTORY
EJ105	RECEPTACLE FLOOR PLAN - AREA D FACTORY
EJ106	RECEPTACLE FLOOR PLAN - AREA E FACTORY
EL101	LIGHTING FLOOR PLAN
EL102	LIGHTING FLOOR PLAN - AREA A COMP.
EL103	LIGHTING FLOOR PLAN - AREA B FACTORY
EL104	LIGHTING FLOOR PLAN - AREA C FACTORY
EL105	LIGHTING FLOOR PLAN - AREA D FACTORY
EL106	LIGHTING FLOOR PLAN - AREA E FACTORY
EP101	POWER FLOOR PLAN
EP102	POWER FLOOR PLAN - AREA A COMP.
EP103	POWER FLOOR PLAN - AREA B FACTORY
EP104	POWER FLOOR PLAN - AREA C FACTORY
EP105	POWER FLOOR PLAN - AREA D FACTORY
EP106	POWER FLOOR PLAN - AREA E FACTORY
EP120	ELECTRICAL ROOF LIGHTING - PROTECTION PLAN
EP121	ELECTRICAL ROOF PLAN - AREA A COMP.
EP122	ELECTRICAL ROOF PLAN - AREA B FACTORY
EP123	ELECTRICAL ROOF PLAN - AREA C FACTORY
EP124	ELECTRICAL ROOF PLAN AREA D FACTORY
EP125	ELECTRICAL ROOF PLAN - AREA E FACTORY
ET102	SPECIAL SYSTEMS FLOOR PLAN - AREA A COMP.
ET103	SPECIAL SYSTEMS FLOOR PLAN - AREA B FACTORY
ET104	SPECIAL SYSTEMS FLOOR PLAN - AREA C FACTORY
ET105	SPECIAL SYSTEMS FLOOR PLAN - AREA D FACTORY
ET106	SPECIAL SYSTEMS FLOOR PLAN - AREA E FACTORY
E-501	ELECTRICAL DETAIL SHEET
E-601	ELECTRICAL DIAGRAMS
E-602	GROUNDING DIAGRAM
E-701	ELECTRICAL SCHEDULES
E-702	ELECTRICAL SCHEDULES
E-703	ELECTRICAL SCHEDULES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

NOT FOR
CONSTRUCTION

ARCHITECT

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PROJECT NUMBER:	2020.017
DRAWING FILE:	
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SHEET TITLE

COVER
SHEET

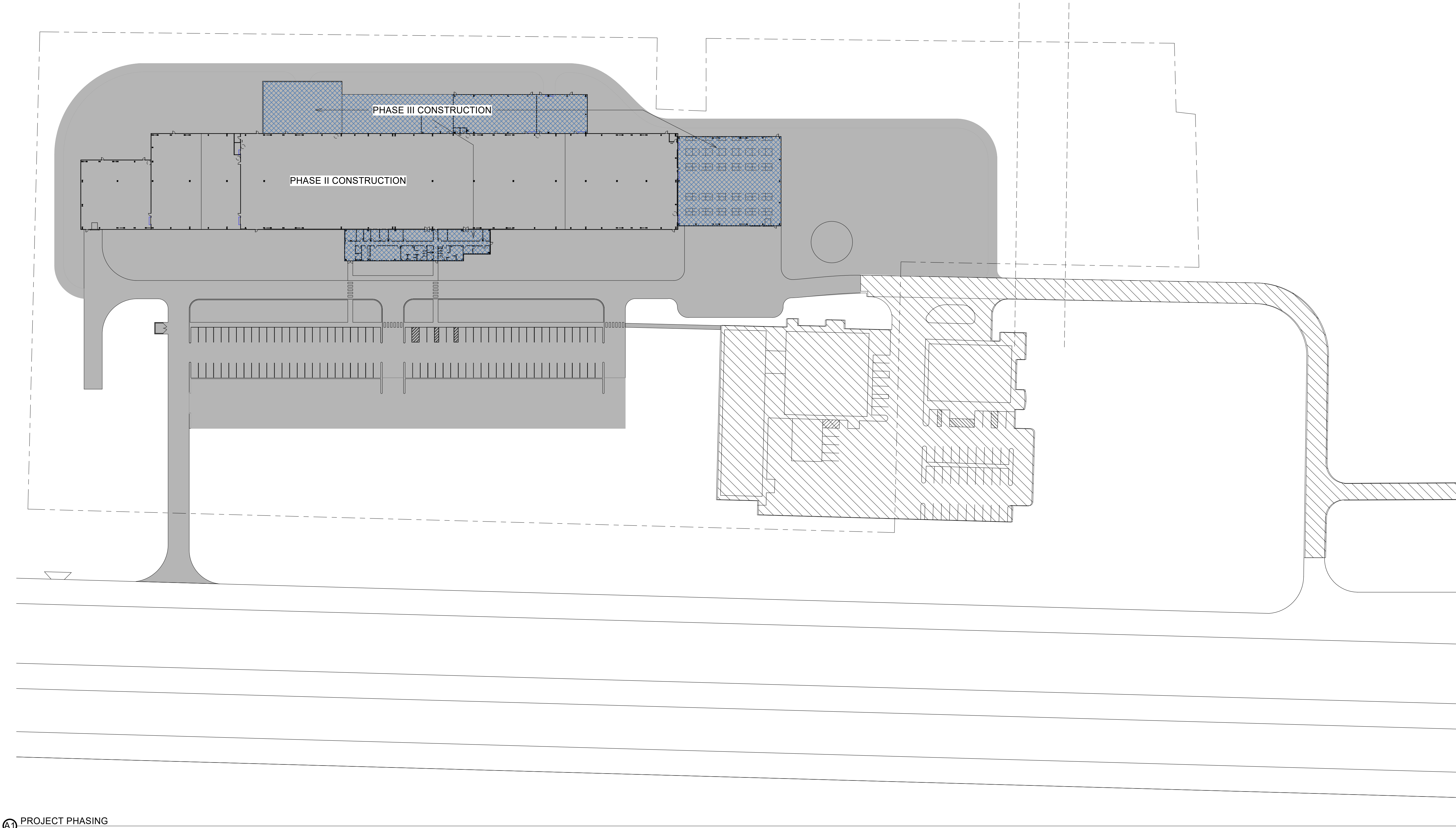
SHEET NUMBER

G-001

Sequence of

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BIM 360://Church Rock Phase II Factory/CR Factory ARCH_1.rvt



PROJECT PHASING
1/64" = 1'-0"

GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- PHASE II CONSTRUCTION SCOPE TO INCLUDE THE EXTENTS SHOWN IN DIAGRAM; ALL SITE DEVELOPMENT, BUILDING ENVELOPE AND FOUNDATIONS.
- PHASE III CONSTRUCTION SCOPE TO INCLUDE THE REMAINING OF DESIGN DOCUMENTS WHICH INCLUDES FOUNDATIONS, ENVELOPE AND BUILDOUT OF REMAINING SPACES NOT CONSTRUCTED IN PHASE II CONSTRUCTION.
- DIAGRAM FOR ILLUSTRATION PURPOSES ONLY. DIAGRAM NOT ALL ENCOMPASSING OF NECESSARY SITE WORK AND COORDINATION THAT IS DIRECTLY REQUIRED TO SUPPORT ANY GIVEN PHASE.

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022
OWNER:
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PHASING PLAN

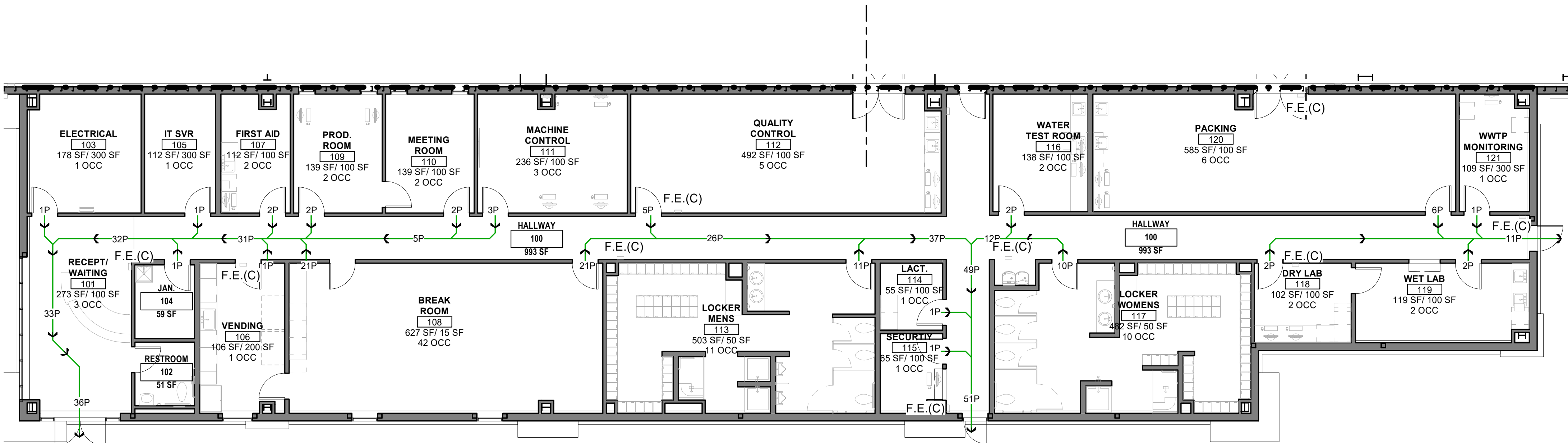
SHEET NUMBER

G-003

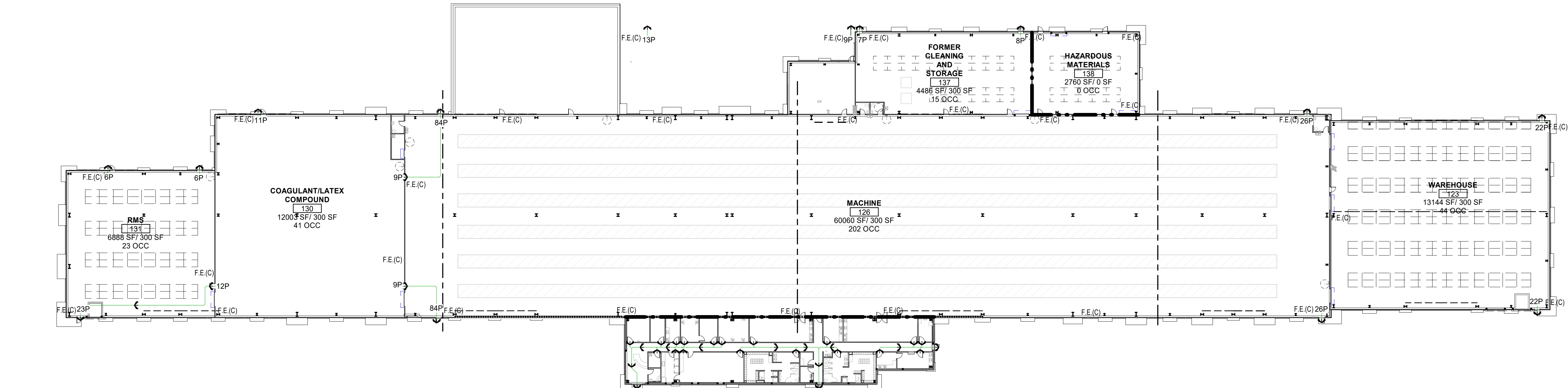
Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

C1 CODE PLAN
1/32" = 1'-0"



A1 CODE PLAN - ENLARGED - AREA G ADMIN.
1/8" = 1'-0"



CODE SUMMARY

APPLICABLE CODES:

2015 INTERNATIONAL BUILDING CODE (IBC)

2015 INTERNATIONAL PLUMBING CODE (IPC)

2015 INTERNATIONAL MECHANICAL CODE (IMC)

2015 INTERNATIONAL FIRE CODE (IFC)

2017 NATIONAL ELECTRICAL CODE (NEC)

2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

ICC/ANSI A117.1 - 2003, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

2015 NFPA 101 LIFE SAFETY CODE

MINE SAFETY AND HEALTH ADMINISTRATION

OCCUPANCY CLASSIFICATION/SEPARATION:

Occupancy Classification will be mixed use of B for all administrative spaces (Section 304.1 – Business Group B), F-2 Low Hazard Factory Industrial, and H-3 High Hazard Group H-3 for Hazardous Storage Area (Section 307.5 High-hazard Group H-3), and S-2 Low hazard storage for the Warehouse.

Low-hazard factory industrial, Group F-2 (Section 306.3) – Factory Industrial uses that involve the fabrication or manufacturing of noncombustible materials that during finishing, packing, or processing do not involve a significant fire hazard shall be classified as F-2 occupancies...

307.1 High Hazard Group H

Anticipated materials to be stored

Hazardous Material	Material Type	Quantity (kg)	Quantity (Gallons)
Nitric Acid 42lb	Oxidizer - Class 2	250 kg/day	1,981.3 gallons
Potassium Hydroxide	Corrosive	16,000 kg	4,226.7 gallons
Diligen B-382	Corrosive	720 kg/day	5,706.1 gallons
Sodium Hydroxide	Corrosive	21,600 kg/month	1,188.8 gallons
		150 kg/day	4,500 gilmouth

International Fire Code – Appendix E – Hazardous Material Type Classification

TABLE 307.1(1) Maximum Allowable Quantity per Control Area of Hazardous Materials Posing a Physical Hazard

Material	Class	Group	When Maximum Allowable Quantity is Exceeded	Storage: Liquid gallons(lb)
Oxidizer	4	H-1	(1)*	1
	3 ^k	H-2 or H-3	(10)*	10
	2	H-3	(250)* ^k	250
	1	NA	(4000)* ^k	4000

^k Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with section 903.3.1.1, where Note e also applies the increase for both notes shall be applied cumulatively.

^k Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, gas rooms or exhausted enclosures or in listed safety cans in accordance with Section 5003.9.10 of the International Fire Code. Where Note d also applies, the increase for both notes shall be applied cumulatively.

¹ Quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

² Allowed only in building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

Material

Corrosives

Storage: Liquid Gallons (Pounds)*

500

⁴ Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with section 903.3.1.1, where Note e also applies the increase for both notes shall be applied cumulatively.

⁵ Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, gas rooms or exhausted enclosures or in listed safety cans in accordance with Section 5003.9.10 of the International Fire Code. Where Note d also applies, the increase for both notes shall be applied cumulatively.

414.1.3 Information Required – A report shall be submitted to building official identifying hazardous materials to be stored, used in a closed system and used in an open system, and subdivided to separately address hazardous material classification categories based on Tables 307.1(1) and 307.1(2). The methods of protection from such hazards including but not limited to control areas, fire protection systems, and Group H occupancies shall be indicated in the report and on the construction documents. The opinion and report shall be prepared by qualified person, firm or corporation approved by the building official and provided without charge to enforcing agency.

For buildings and structures with an occupancy in Group H, separate floor plans shall be submitted identifying the location of anticipated contents and process so as to reflect the nature of each occupied portion of every building and structure.

414.5.3 Spill Control, Drainage and Containment – Rooms buildings or areas occupied for the storage of solid and liquid hazardous materials shall be provided with a means to control spillage and to contain or drain off spillage and fire protection water discharged in the storage area where required in the International Fire Code. The methods of spill control shall be in accordance with the International Fire Code. 415.3 Automatic fire detection systems – Group H Occupancy shall be provided with an automatic fire detection system in accordance with Section 907.2.

415.4 Automatic sprinkler system – Group H Occupancies shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.2.5.

415.5 Emergency Alarms – Emergency alarms for the detection and notification of an emergency condition in Group H occupancies shall be provided as set forth herein.

415.6 Fire Separation Distance – In groups H-2 and H-3, not less than 25% of the perimeter wall of the occupancy shall be an exterior wall.

415.6.1 Group H occupancy minimum fire separation distance – Group H occupancies shall be set back to minimum fire separation distance set forth in Sections 415.6.1.1 through 415.6.1.4. Distances shall be measured from the walls enclosing the occupancy to lot lines established for the purpose of determining exterior wall and opening protection are not to be used to establish the

minimum fire separation distance for buildings on sites where explosives are manufactured or used when separation is provided in accordance with quantity distance tables specified for explosive materials in the International Fire Code.

415.6.3 Group H-3

415.6.2 Detached buildings for Group H-1, H-2, or H-3 Occupancy – The storage or used of hazardous materials in excess of those amounts listed in Table 415.6.2 shall be in accordance with the applicable provisions of Sections 415.7 and 415.8.

TABLE 415.6.2 Detached Building Required

Material	Class	Solids and Liquids (tons)	Actual Stored
Oxidizers	Class 4	Maximum Allowable Quantity	
Oxidizer, liquid, & solids	Class 3	1,200	
	Class 2	2,000	8.3

a. For materials that are detonable, the distance to other buildings or lot lines shall be in accordance with Chapter 56 of the International Fire Code based on trinitrotoluene (TNT) equivalence of the material. For materials classified as explosives, see Chapter 56 of the International Fire Code

b. "Maximum Allowable Quantity" means the maximum allowable quantity per control area set forth in Table 307.1(1).

[415.10.3 Group H-3 and H-4]

ALLOWABLE HEIGHTS AND AREA (SECTION 504.2 Mixed occupancy, Table 504.3)

Classification	Height	Area
Classification B – If fully sprinklered – 75ft; if not sprinklered – 55ft		
Classification F-2 – If fully sprinklered – 75ft; if not sprinklered – 55ft		
Classification H-3 – If fully sprinklered or not sprinklered – 55ft		
Classification S-2 – If fully sprinklered – 75ft; if not sprinklered – 55ft		

Allowable Square Footage (in accordance with Section 506.2.2.1 Group H-2 or H-3 mixed occupancies, Section 508.4.2 Allowable Building Area, Table 506.2, Table 508.4)

Section 506.2.2 Mixed occupancy, one story building – The allowable area of the mixed occupancy building with no more than one story above grade shall be determined in accordance with the applicable provisions of Section 508.1 based on Equation 5-1 for each applicable occupancy.

Section 506.2.2.1 Group H-2 or H-3 mixed occupancies – For a building containing Group H-2 or H-3 occupancies the allowable area shall be determined in accordance with Section 508.4.2, with the sprinkler system increase applicable only to the portions of the building not classified as Group H-2 or H-3.

Table 506.2 Allowable Area Factor

Classification	Area Factor
Classification B – 92,000 sf allowable (sprinklered, Type IIB)	
Classification F-2 – 92,000 sf allowable (sprinklered, Type IIB)	
Classification H-3 – 14,000 sf allowable	
Classification S-2 – 104,000 sf allowable (sprinklered, Type IIB)	

BUILDING AREA (SECTION 503 & 506)

BASE ALLOWABLE FLOOR AREA (TABLE 503):

9,500 SF

BUILDING AREA:

34,378 SF

EGRESS REQUIREMENTS:

1. MINIMUM NUMBER OF EXITS FOR A TOTAL OCCUPANT LOAD OF LESS THAN 500 IS 2 EXITS PER TABLE 1006.3.1. 8 TOTAL EXITS PROVIDED

2. TOTAL ALLOWABLE EXIT ACCESS LENGTH W/ SPRINKLER SYSTEM: PER TABLE 1017.2 IS 250 FT.

3. MAXIMUM OCCUPANT LOAD FOR SPACE WITH ONE EXIT IS 18 OCCUPANTS PER TABLE 1015.1.

G. PLUMBING FIXTURE REQUIREMENTS (SECTION 2902)

OCCUPANT LOADS:

FACTORY:

WC	LAV	DE	SS
4	4	1	1

TOTAL:

4	4	1	1
---	---	---	---

PLUMBING FIXTURES REQUIRED: 4 4 1 1

PLUMBING FIXTURES PROVIDED: 10 8 2 2

NAME

101

150 SF/ 50 SF

3 OCC

ROOM NAME

ROOM NUMBER

AREA OF ROOM/SF PER OCCUPANT (IBC)

OCCUPANT LOAD OF ROOM

IBC OCCUPANT LOAD/DIRECTION OF EGRESS

XX TRAVEL DISTANCE

XX ACTUAL OCCUPANT LOAD FOR DOOR

XX WIDTH OF DOOR (IN INCHES)

FEB FIRE EXTINGUISHER BRACKET

FEC FIRE EXTINGUISHER CABINET

150-200 DIRECTION OF EXIT

50- NUMBER OF OCCUPANTS EXITING

SMOKE PARTITION

1 HOUR SEPARATION

2 HOUR SEPARATION

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

MARCH 25, 2022

OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC



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	MARCH 25, 2022	

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SHEET TITLE

CODE PLAN

SHEET NUMBER

G-102

Sequence of

E
D
C
B
A

1

2

3

4

5

6

7

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SEE SHEET C-101

SEE SHEET C-102

SEE SHEET C-103

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FF=6626.50

PHASE II FACTORY

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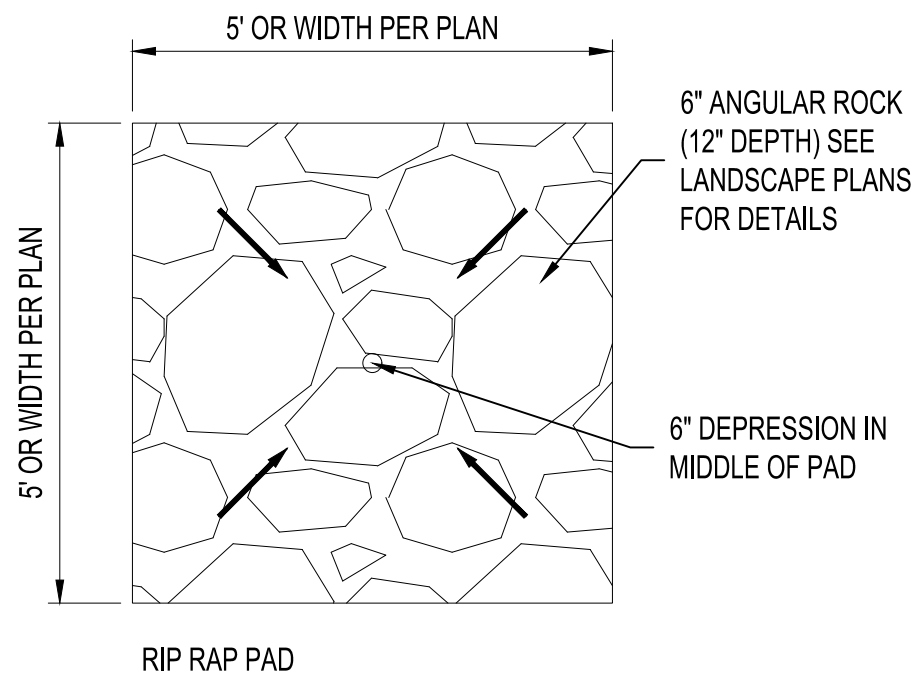
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WWTP FUTURE PHASE III

SEE SHEET C-104

SEE SHEET C-105

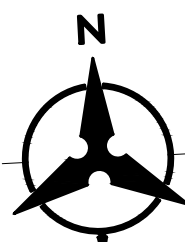
140 WEST



01 RIP-RAP PAD

LEGEND

- PROPERTY LINE
- PROJECT LIMITS OF GRADING
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING GROUND SPOT ELEVATION
- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED GRADE SPOT ELEVATION
- FL=FLOW LINE
- TC=TOP OF CURB
- TS=TOP OF SIDEWALK
- DIRECTION OF FLOW
- WATER BLOCK/GRADE BREAK
- TO BE CONSTRUCTED AS PHASE II OF PROJECT



50 25 0 50
1"=50'

Bohannon & Huston
www.bhinc.com 800.877.5332

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, NMAPWA STANDARD SPECIFICATIONS SHALL APPLY.
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
- ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM HOLLOMAN AFB, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.
- THE CONTRACTOR SHALL COMPLY WITH ALL EPA RULES AND REGULATIONS WHICH REGULATE THE DISCHARGE OF POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS DEFINED IN THE NPDES STORM WATER REGULATION. THE CONTRACTOR IS RESPONSIBLE FOR SWPPP PREPARATION, IMPLEMENTATION, INSPECTION, AND MAINTENANCE. THE CONTRACTOR WILL POST THE SWPPP ON SITE AS REQUIRED, AS WELL AS SUBMIT COPIES OF SWPPP INSPECTION REPORTS TO OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ENSURE THE N.O.T. AND N.O.I ARE COMPLETED IN A TIMELY FASHION.

GRADING NOTES

- EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST, AND INCLUDED IN THE GMP.
- EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.
- A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE INSPECTOR. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- PAVING AND ROADWAY GRADES SHALL BE $\pm 0.1'$ FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE $\pm 0.05'$ FROM BUILDING PLAN ELEVATION.
- ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.
- VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE AS-BUILTS SURVEY DATA TO ENSURE COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE SURVEY SHALL BE PERFORMED BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF NEW MEXICO. THE AS-BUILT DRAWING SHALL BE CERTIFIED BY THE SURVEYOR OF RECORD.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC

8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

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	Issue Date	

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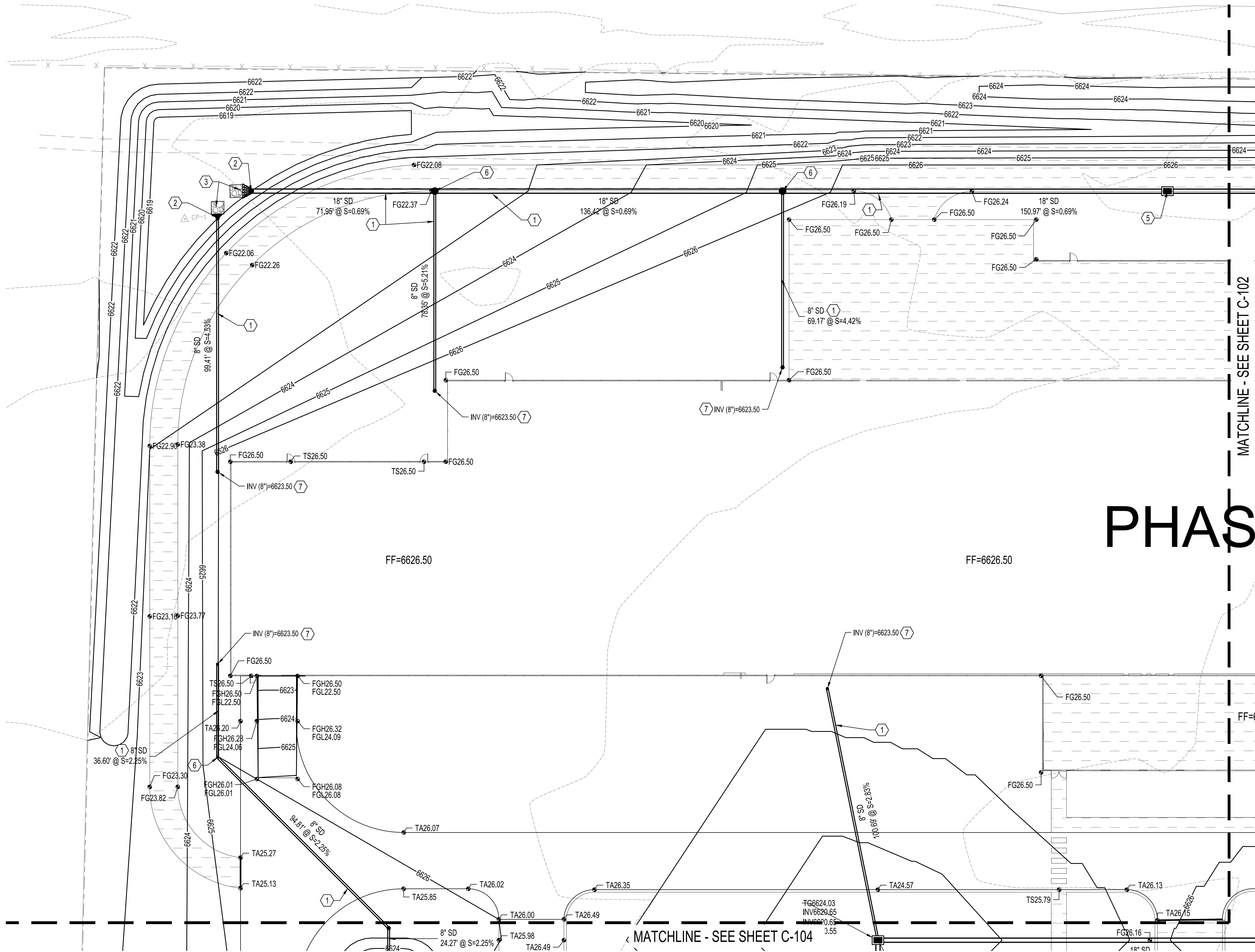
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OVERALL
GRADING PLAN

SHEET NUMBER

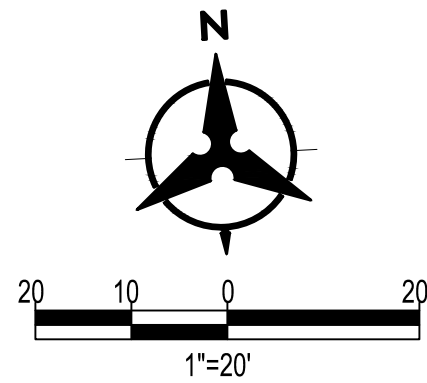
C-100

Sequence of



GRADING KEYNOTES

1. INSTALL HDPE (N12WT, OR APPROVED EQUAL) STORM DRAIN PIPE. SEE PLAN FOR SIZE.
2. INSTALL CMP END SECTION (CONTECH OR APPROVED EQUAL). SEE PLAN FOR SIZE.
3. INSTALL RIP-RAP PAD PER DETAIL 1, SHEET C-100.
4. MATCH EXISTING ELEVATION.
5. INSTALL TYPE "D" INLET PER NMAPWA STD DWG 2206.
6. INSTALL PREFABRICATED STORM DRAIN FITTING. SEE PLAN FOR SIZE.
7. INSTALL STORM DRAIN TO WITHIN 5' OF BUILDING. CONNECT TO ROOF DRAIN OUTLET BELOW GRADE. PROVIDE FITTINGS AS NECESSARY. SEE ARCHITECTURAL PLAN FOR DETAIL.
8. FUTURE PHASE 3 STORM DRAIN.



LEGEND

---	PROPERTY LINE
---	PROJECT LIMITS OF GRADING
---	EXISTING INDEX CONTOUR
---	EXISTING INTERMEDIATE CONTOUR
---	EXISTING GROUND SPOT ELEVATION
---	PROPOSED INDEX CONTOUR
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---	DIRECTION OF FLOW
---	WATER BLOCK/GRADE BREAK
---	TO BE CONSTRUCTED AS PHASE III OF PROJECT

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO CONSTRUCTION DOCUMENTS - PROGRESS FEBRUARY 18, 2022

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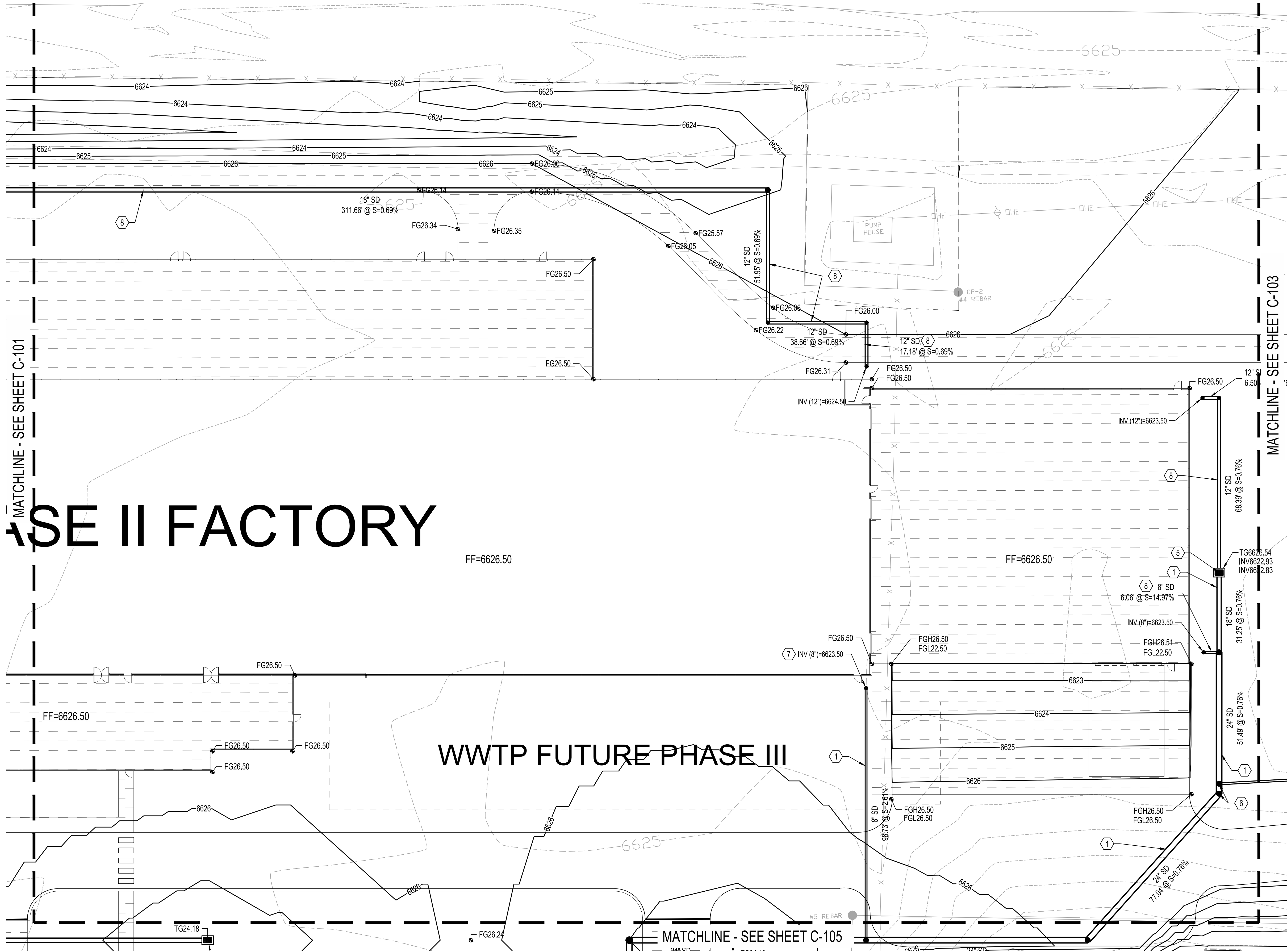
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GRADING PLAN

SHEET NUMBER

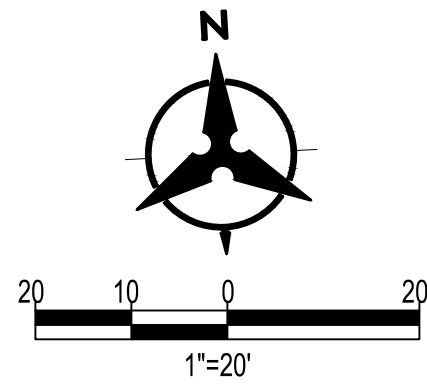
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Sequence of



GRADING KEYNOTES

1. INSTALL HDPE (N12WT, OR APPROVED EQUAL) STORM DRAIN PIPE. SEE PLAN FOR SIZE.
2. INSTALL CMP END SECTION (CONTECH OR APPROVED EQUAL). SEE PLAN FOR SIZE.
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8. FUTURE PHASE 3 STORM DRAIN.



LEGEND

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CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

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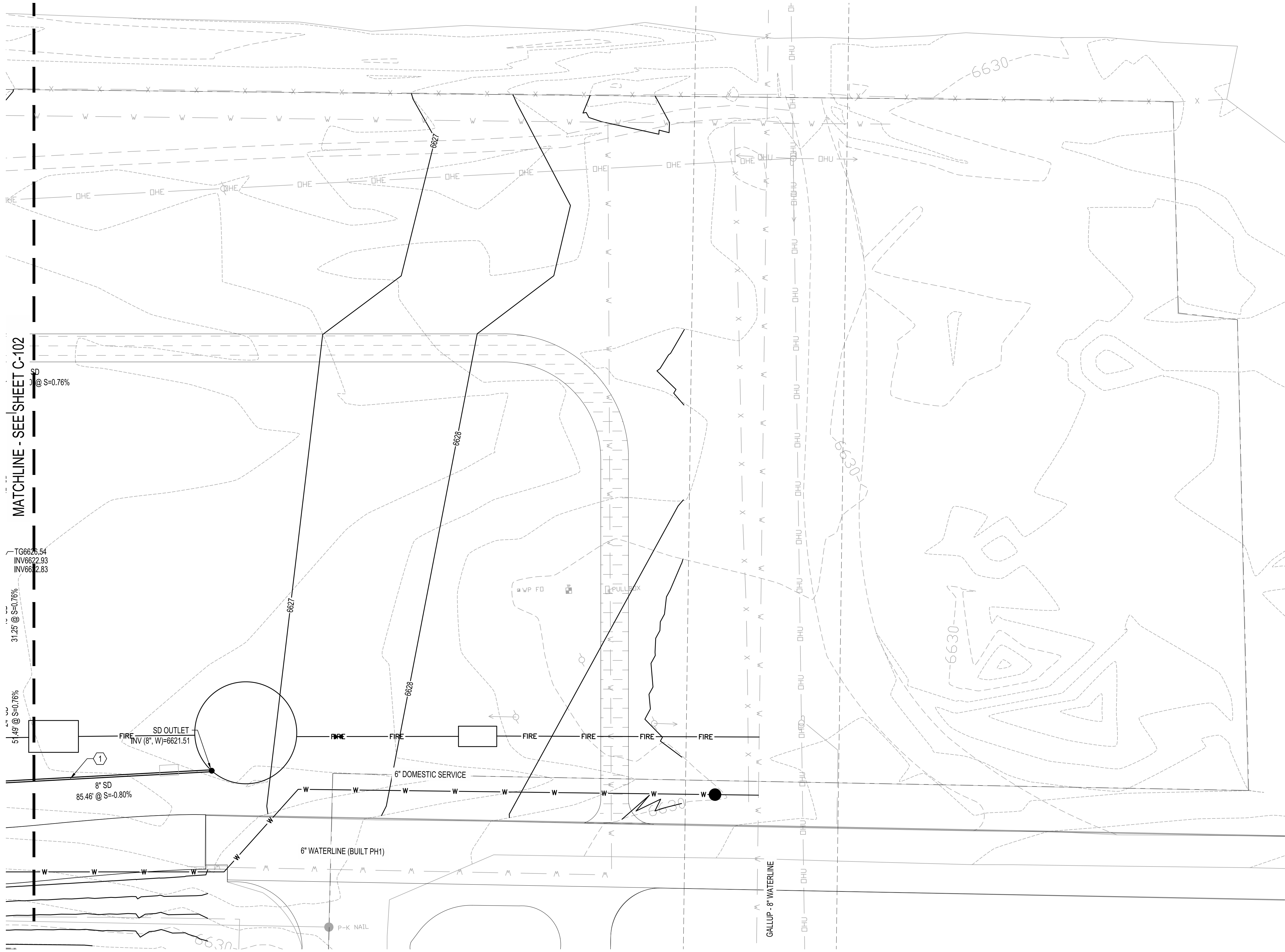
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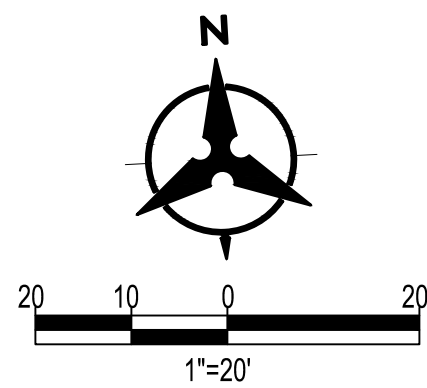
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Sequence of



GRADING KEYNOTES

1. INSTALL HDPE (N12WT, OR APPROVED EQUAL) STORM DRAIN PIPE. SEE PLAN FOR SIZE.
2. INSTALL CMP END SECTION (CONTECH OR APPROVED EQUAL). SEE PLAN FOR SIZE.
3. INSTALL RIP-RAP PAD PER DETAIL 1, SHEET C-100.
4. MATCH EXISTING ELEVATION.
5. INSTALL TYPE "D" INLET PER NMAPWA STD DWG 2206.
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LEGEND

- PROPERTY LINE
- PROJECT LIMITS OF GRADING
- EXISTING INDEX CONTOUR
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CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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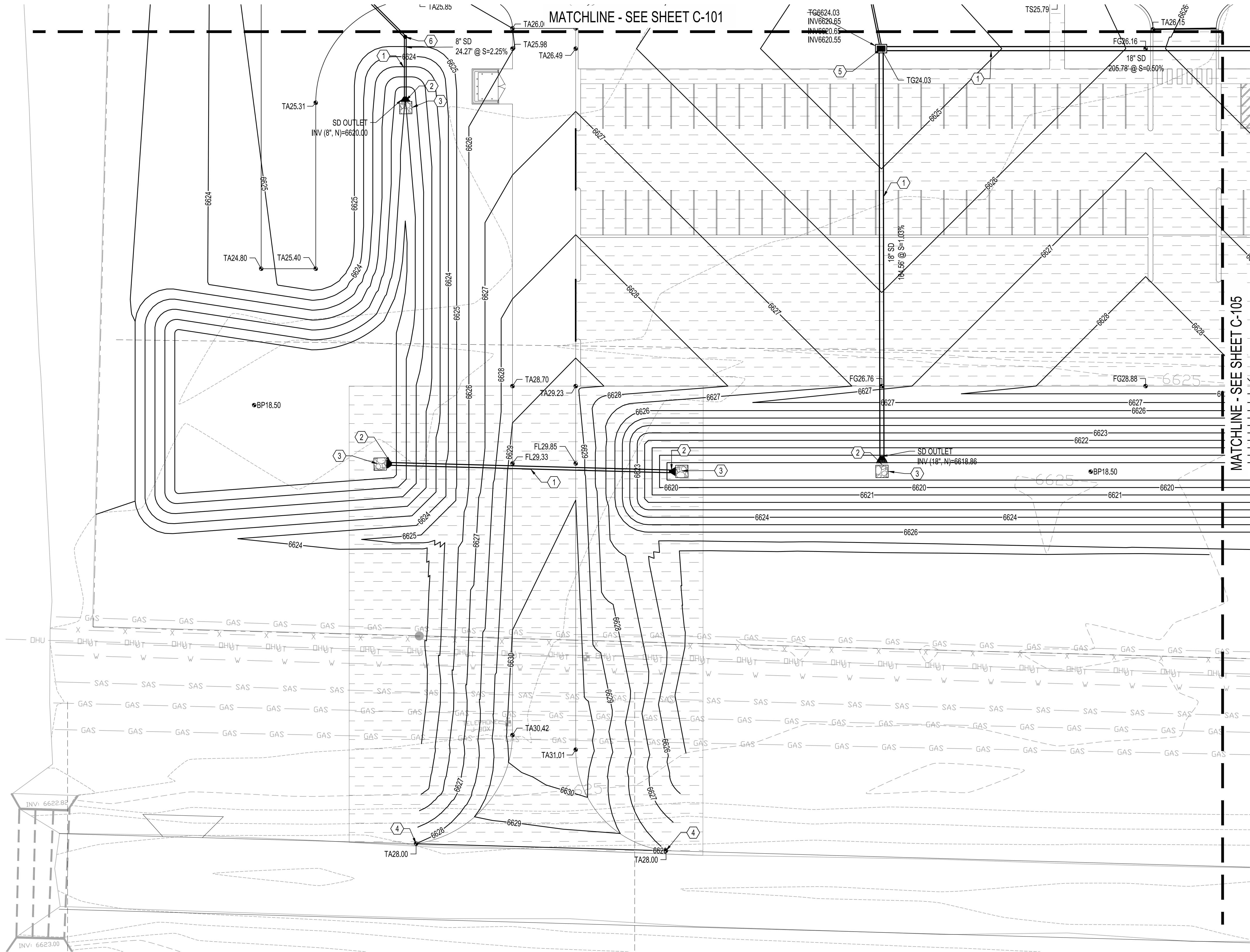
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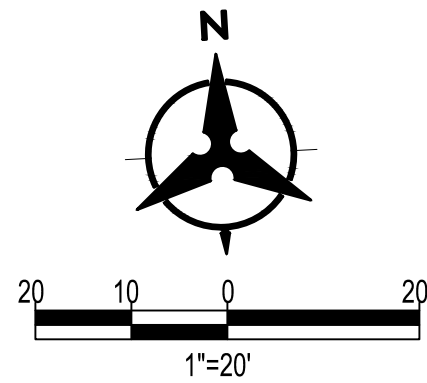
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Sequence of



GRADING KEYNOTES

1. INSTALL HDPE (N12WT, OR APPROVED EQUAL) STORM DRAIN PIPE. SEE PLAN FOR SIZE.
2. INSTALL CMP END SECTION (CONTECH OR APPROVED EQUAL). SEE PLAN FOR SIZE.
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8. FUTURE PHASE 3 STORM DRAIN.



LEGEND

	PROPERTY LINE
	PROJECT LIMITS OF GRADING
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	EXISTING GROUND SPOT ELEVATION
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CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO CONSTRUCTION DOCUMENTS - PROGRESS FEBRUARY 18, 2022

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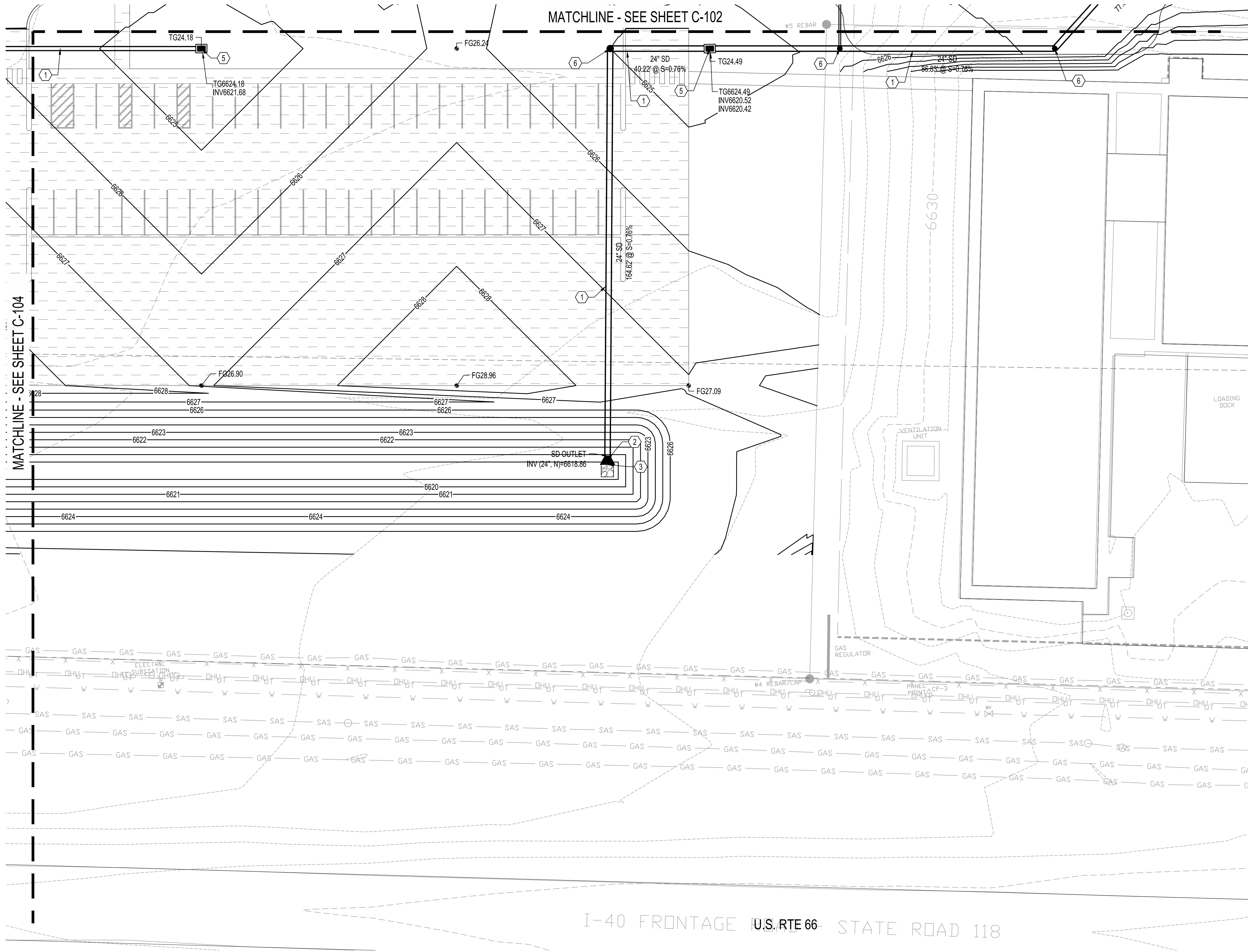
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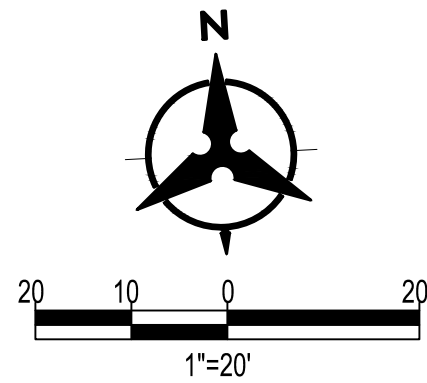
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Sequence of



GRADING KEYNOTES

1. INSTALL HDPE (N12WT, OR APPROVED EQUAL) STORM DRAIN PIPE. SEE PLAN FOR SIZE.
2. INSTALL CMP END SECTION (CONTECH OR APPROVED EQUAL). SEE PLAN FOR SIZE.
3. INSTALL RIP-RAP PAD PER DETAIL 1, SHEET C-100.
4. MATCH EXISTING ELEVATION.
5. INSTALL TYPE "D" INLET PER NMAPWA STD DWG 2206.
6. INSTALL PREFABRICATED STORM DRAIN FITTING. SEE PLAN FOR SIZE.
7. INSTALL STORM DRAIN TO WITHIN 5' OF BUILDING. CONNECT TO ROOF DRAIN OUTLET BELOW GRADE. PROVIDE FITTINGS AS NECESSARY. SEE ARCHITECTURAL PLAN FOR DETAIL.
8. FUTURE PHASE 3 STORM DRAIN.



LEGEND

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CHURCH ROCK PHASE II FACTORY

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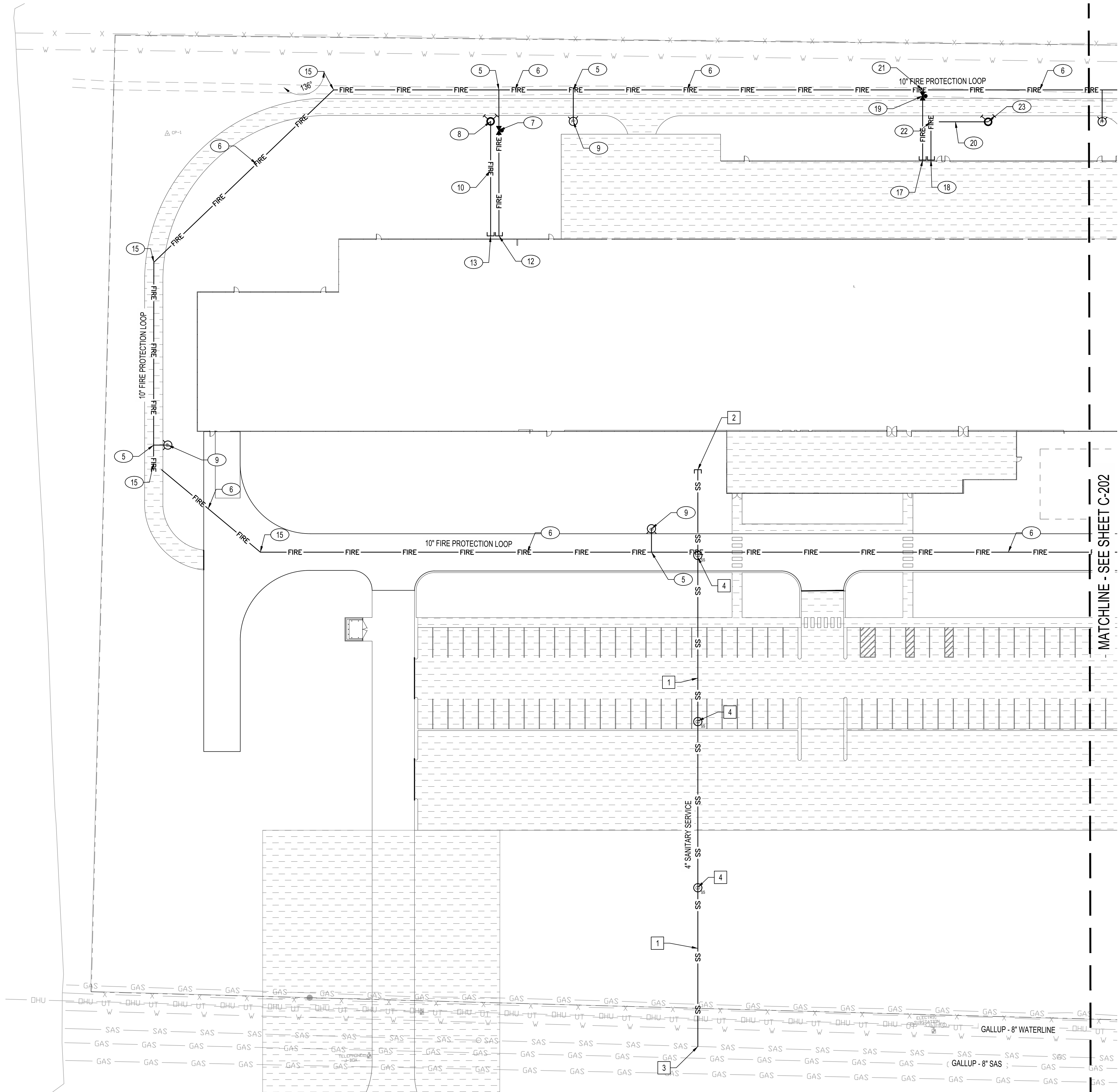
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GRADING PLAN

SHEET NUMBER

C-105

Sequence of

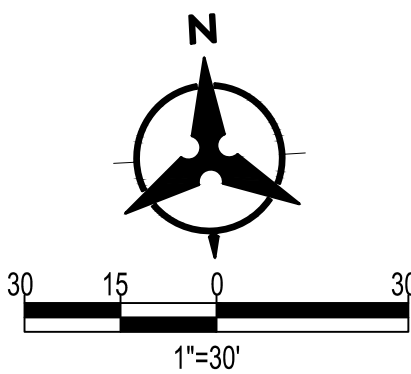


WATERLINE KEYNOTES

1. INSTALL 6" WATER METER WITH BOX PER CITY OF GALLUP STANDARDS.
2. INSTALL 6" DOMESTIC SERVICE TO WITHIN 5' OF BUILDING, SEE PLUMBING PLAN FOR CONSTRUCTION.
3. SEE SHEET C-203 FOR CONTINUATION.
4. INSTALL 1-3" DOMESTIC REDUCED PRESSURE BACKFLOW PREVENTER WITHIN HEATED ENCLOSURE. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SEE ELECTRICAL PLANS FOR POWER.
5. INSTALL 1 TEE (SIZE PER PLAN) W/ RESTRAINED JOINTS AS NECESSARY.
6. INSTALL FIRE LINE. SEE PLAN FOR SIZE.
7. INSTALL POST INDICATOR VALVE PER DETAIL 1, SHEET C-200.
8. INSTALL REMOTE FIRE DEPARTMENT CONNECTION PER DETAIL 2, SHEET C-200.
9. INSTALL 1-PRIVATE FIRE HYDRANT COMPLETE PER NMAPWA STD DWG 2340. PAINT HYDRANT SAFETY ORANGE.
10. INSTALL 4" FIRE DEPARTMENT CONNECTION LINE.
11. INSTALL 1-6" GATE VALVE WITH BOX AND LID PER NMAPWA STD DWG 2326.
12. INSTALL FIRE PROTECTION LINE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLAN FOR CONTINUATION.
13. INSTALL FDC LINE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLAN FOR CONTINUATION.
14. INSTALL 90° BEND (WITH RESTRAINED JOINTS) SEE PLAN FOR SIZE.
15. INSTALL 45° BEND (WITH RESTRAINED JOINTS) SEE PLAN FOR SIZE.
16. INSTALL DOMESTIC WATER LINE. SEE PLAN FOR SIZE.
17. INSTALL FIRE PROTECTION LINE TO WITHIN 5' OF BUILDING AS A PART OF FUTURE PHASE III PACKAGE. SEE PLUMBING PLAN FOR CONTINUATION.
18. INSTALL FDC LINE TO WITHIN 5' OF BUILDING AS A PART OF FUTURE PHASE III PACKAGE. SEE PLUMBING PLAN FOR CONTINUATION.
19. INSTALL POST INDICATOR VALVE AS A PART OF FUTURE PHASE III PACKAGE.
20. INSTALL 4" FIRE DEPARTMENT CONNECTION LINE AS A PART OF FUTURE PHASE III PACKAGE.
21. INSTALL 1 TEE (SIZE PER PLAN) W/ RESTRAINED JOINTS AS NECESSARY AS A PART OF FUTURE PHASE III PACKAGE.
22. INSTALL BEND (WITH RESTRAINED JOINTS) AS A PART OF FUTURE PHASE III PACKAGE. SEE PLAN FOR SIZE.
23. INSTALL REMOTE FIRE DEPARTMENT CONNECTION AS A PART OF FUTURE PHASE III PACKAGE.

SANITARY SEWER KEYNOTES

1. INSTALL SANITARY SEWER SERVICE LINE, SEE PLAN FOR SIZE AND SLOPE.
2. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION. VERIFY INVERT AT BUILDING AND CONTACT ENGINEER WITH ANY DISCREPANCIES.
3. CONNECT TO EXISTING SANITARY SEWER PER NMAPWA STD DWG 2125. CONTRACTOR TO VERIFY INVERT AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. INSTALL 6" SANITARY SEWER CLEANOUT PER DETAIL 3, SHEET C-200.
5. INSTALL WATERTIGHT PRE-FABRICATED SANITARY SEWER FITTING.
6. INSTALL STANDARD SANITARY SEWER MANHOLE PER NMAPWA STD DWG 2102.



LEGEND

W	W	EXISTING WATER LINE
UT	UT	EXISTING COMMUNICATION LINE
OHE	OHE	EXISTING UNDERGROUND ELECTRICAL LINE
OHE	OHE	EXISTING ELECTRICAL LINE
SAS	SAS	EXISTING SAS LINE
GAS	GAS	EXISTING GAS LINE
W	W	PROPOSED WATER LINE
FIRE	FIRE	PROPOSED FIRE LINE
SS	SS	PROPOSED SAS LINE
NG	NG	PROPOSED GAS LINE
FD	FD	PROPOSED FDC
PM	PM	PROPOSED PIV
WM	WM	PROPOSED WATER METER
HY	HY	PROPOSED FIRE HYDRANT
SV	SV	PROPOSED WATER VALVE
LF	LF	LEAN FILL
SC	SC	PROPOSED SAS CLEANOUT
SM	SM	PROPOSED SAS MANHOLE
TO BE CONSTRUCTED AS PHASE III OF PROJECT		

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO CONSTRUCTION DOCUMENTS - PROGRESS FEBRUARY 18, 2022

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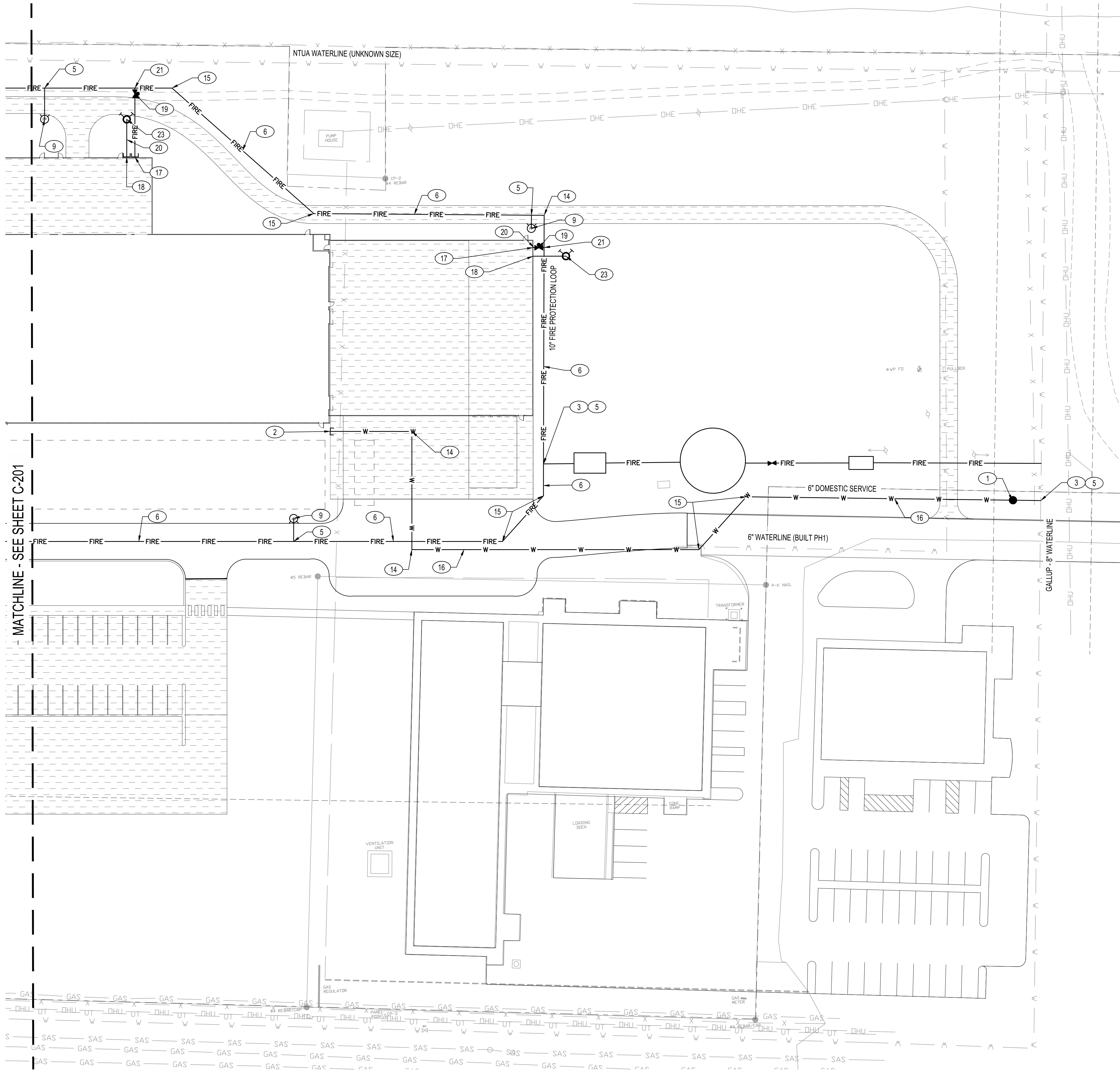
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SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C-201

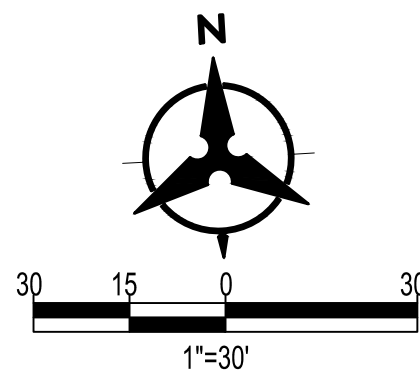


WATERLINE KEYNOTES

1. INSTALL 6" WATER METER WITH BOX PER CITY OF GALLUP STANDARDS.
2. INSTALL 6" DOMESTIC SERVICE TO WITHIN 5' OF BUILDING, SEE PLUMBING PLAN FOR CONSTRUCTION.
3. SEE SHEET C-203 FOR CONTINUATION.
4. INSTALL 1-3" DOMESTIC REDUCED PRESSURE BACKFLOW PREVENTER WITHIN HEATED ENCLOSURE. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SEE ELECTRICAL PLANS FOR POWER.
5. INSTALL 1 TEE (SIZE PER PLAN) W/ RESTRAINED JOINTS AS NECESSARY.
6. INSTALL FIRE LINE. SEE PLAN FOR SIZE.
7. INSTALL POST INDICATOR VALVE PER DETAIL 1, SHEET C-200.
8. INSTALL REMOTE FIRE DEPARTMENT CONNECTION PER DETAIL 2, SHEET C-200.
9. INSTALL 1-PRIVATE FIRE HYDRANT COMPLETE PER NMAPWA STD DWG 2340. PAINT HYDRANT SAFETY ORANGE.
10. INSTALL 4" FIRE DEPARTMENT CONNECTION LINE.
11. INSTALL 1-6" GATE VALVE WITH BOX AND LID PER NMAPWA STD DWG 2326.
12. INSTALL FIRE PROTECTION LINE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLAN FOR CONTINUATION.
13. INSTALL FDC LINE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLAN FOR CONTINUATION.
14. INSTALL 90° BEND (WITH RESTRAINED JOINTS) SEE PLAN FOR SIZE.
15. INSTALL 45° BEND (WITH RESTRAINED JOINTS) SEE PLAN FOR SIZE.
16. INSTALL DOMESTIC WATER LINE. SEE PLAN FOR SIZE.
17. INSTALL FIRE PROTECTION LINE TO WITHIN 5' OF BUILDING AS A PART OF FUTURE PHASE III PACKAGE. SEE PLUMBING PLAN FOR CONTINUATION.
18. INSTALL FDC LINE TO WITHIN 5' OF BUILDING AS A PART OF FUTURE PHASE III PACKAGE. SEE PLUMBING PLAN FOR CONTINUATION.
19. INSTALL POST INDICATOR VALVE AS A PART OF FUTURE PHASE III PACKAGE.
20. INSTALL 4" FIRE DEPARTMENT CONNECTION LINE AS A PART OF FUTURE PHASE III PACKAGE.
21. INSTALL 1 TEE (SIZE PER PLAN) W/ RESTRAINED JOINTS AS NECESSARY AS A PART OF FUTURE PHASE III PACKAGE.
22. INSTALL BEND (WITH RESTRAINED JOINTS) AS A PART OF FUTURE PHASE III PACKAGE. SEE PLAN FOR SIZE.
23. INSTALL REMOTE FIRE DEPARTMENT CONNECTION AS A PART OF FUTURE PHASE III PACKAGE.

SANITARY SEWER KEYNOTES

1. INSTALL SANITARY SEWER SERVICE LINE, SEE PLAN FOR SIZE AND SLOPE.
2. INSTALL 6" SANITARY SERVICE TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION. VERIFY INVERT AT BUILDING AND CONTACT ENGINEER WITH ANY DISCREPANCIES.
3. CONNECT TO EXISTING SANITARY SEWER PER NMAPWA STD DWG 2125. CONTRACTOR TO VERIFY INVERT AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. INSTALL 6" SANITARY SEWER CLEANOUT PER DETAIL 3, SHEET C-200.
5. INSTALL WATERTIGHT PRE-FABRICATED SANITARY SEWER FITTING.
6. INSTALL STANDARD SANITARY SEWER MANHOLE PER NMAPWA STD DWG 2102.



LEGEND

W	W	EXISTING WATER LINE
UT	UT	EXISTING COMMUNICATION LINE
DHU	DHU	EXISTING UNDERGROUND ELECTRICAL LINE
DHE	DHE	EXISTING ELECTRICAL LINE
SAS	SAS	EXISTING SAS LINE
GAS	GAS	EXISTING GAS LINE
W	W	PROPOSED WATER LINE
FIRE	FIRE	PROPOSED FIRE LINE
SS	SS	PROPOSED SAS LINE
NG	NG	PROPOSED GAS LINE
FD	FD	PROPOSED FDC
PIV	PIV	PROPOSED PIV
WM	WM	PROPOSED WATER METER
FH	FH	PROPOSED FIRE HYDRANT
LV	LV	PROPOSED WATER VALVE
LF	LF	LEAN FILL
SC	SC	PROPOSED SAS CLEANOUT
SM	SM	PROPOSED SAS MANHOLE
TO BE CONSTRUCTED AS PHASE III OF PROJECT		

Bohannon & Huston
www.bhinc.com 800.877.5332

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC

8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

CONSULTANT INFO & LOGO

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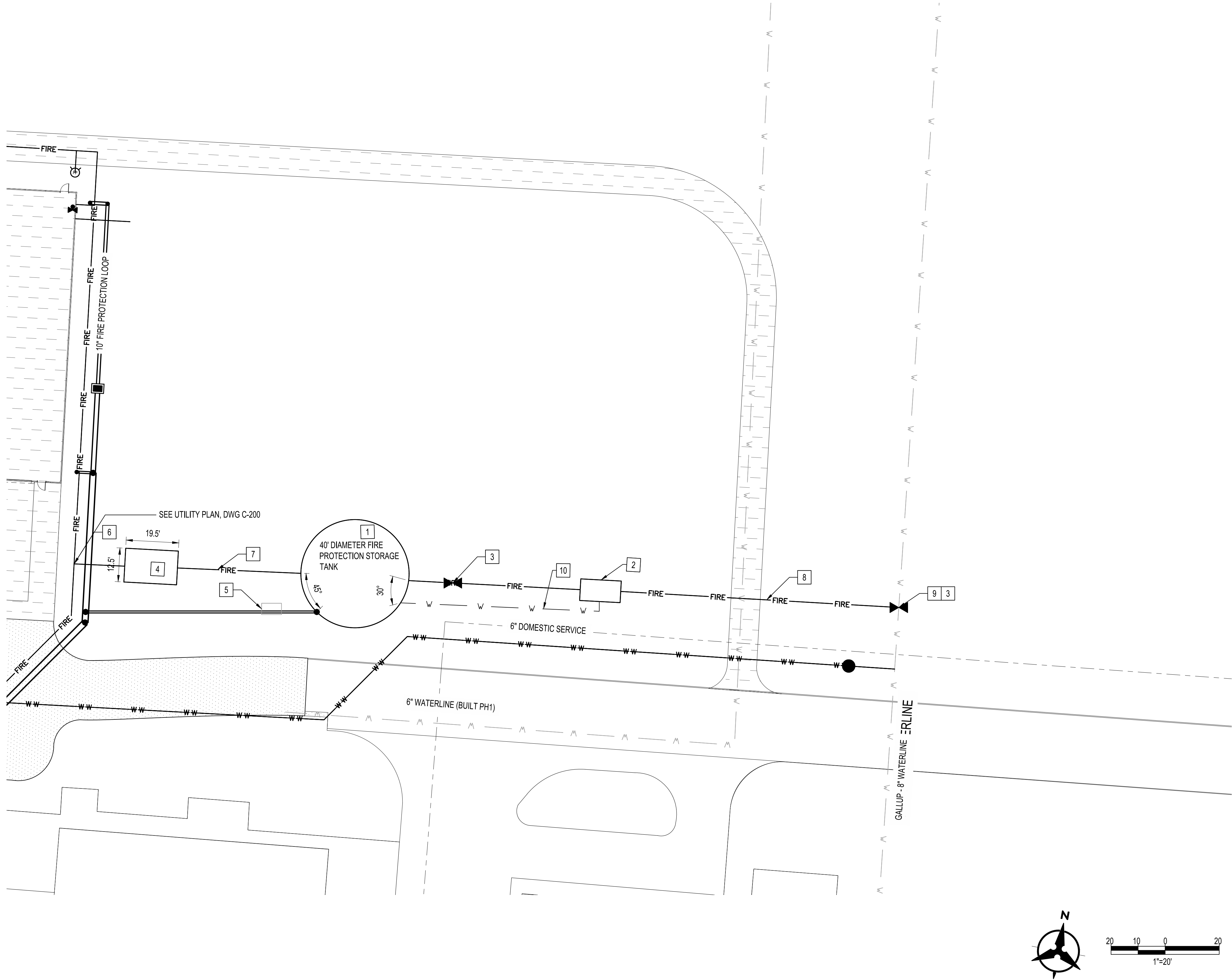
SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C-202

Sequence of



GENERAL NOTES:
1. RESTRAIN ALL WATERLINE PIPES, JOINTS, & FITTINGS.
2. NATURAL GAS LINES, TELECOM LINES, AND ELECTRICAL LINES ARE SHOWN FOR INFORMATION ONLY. SEE THOSE RESPECTIVE DISCIPLINE SHEETS FOR CONSTRUCTION DETAILS.

KEYED NOTES:

- 1 225,606 GALLONS FIRE PROTECTION TANK. SEE DETAIL 2 DWG C-302.
- 2 8" ALTITUDE VALVE VAULT, SEE SHEETS C-305 & C-306.
- 3 8" GATE VALVE.
- 4 PUMP STATION. SEE DWG C-304.
- 5 TANK DRAINLINE AND STORM DRAIN DROP INLET, CONNECT TO NEW STORM DRAIN SYSTEM.
- 6 10" X 10" TEE.
- 7 10" C900 DR18 PVC FIRE PROTECTION LINE.
- 8 8" C900 DR18 PVC FIRE PROTECTION LINE.
- 9 8" X 8" TEE, CONNECT TO EXISTING 8" DOMESTIC WATER LINE.
- 10 1" SENSING LINE, SEE DETAIL 2 SHEET C-302.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
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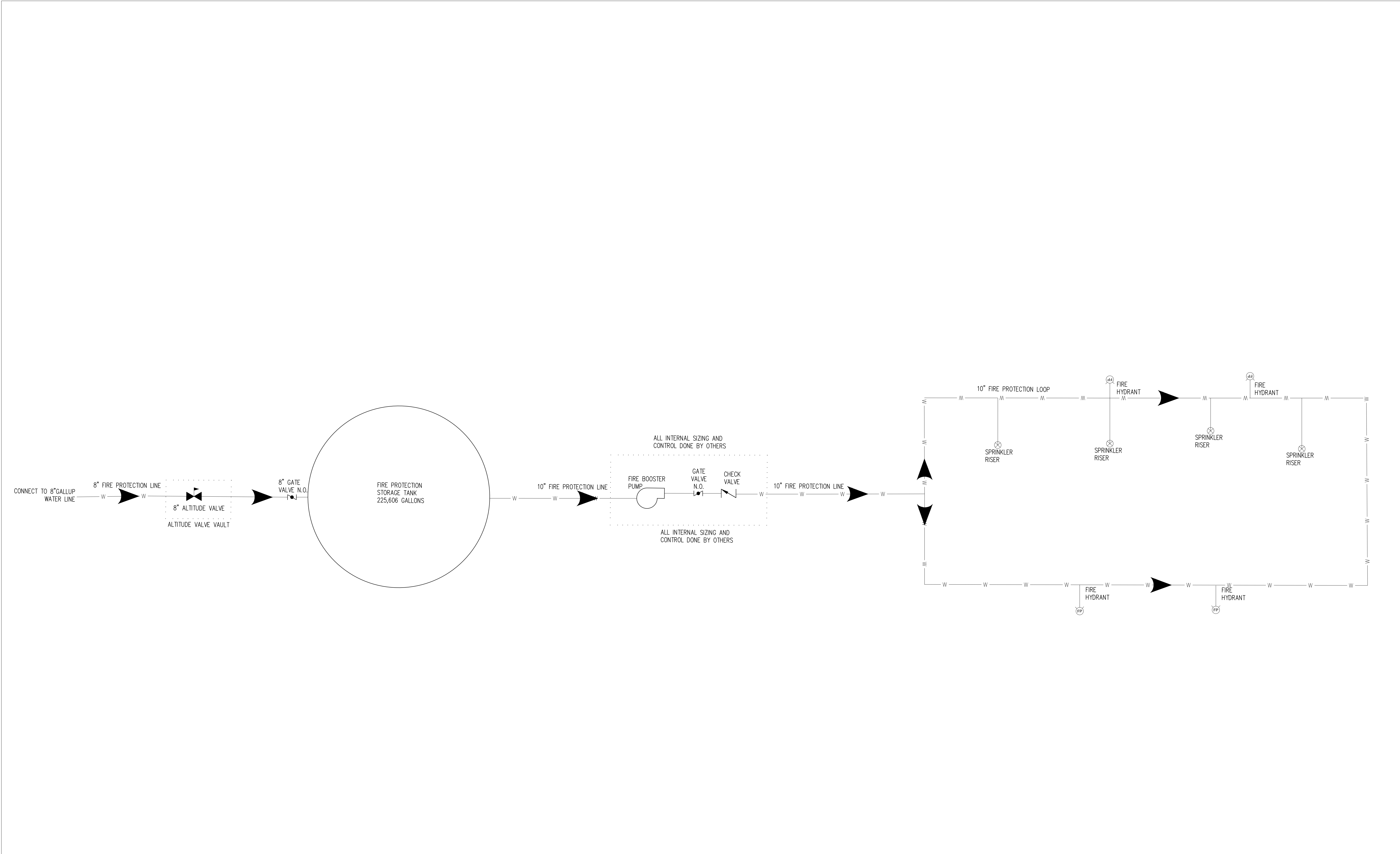
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SHEET TITLE
WATER UTILITY
SITE LAYOUT

SHEET NUMBER

C-300

Sequence of



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
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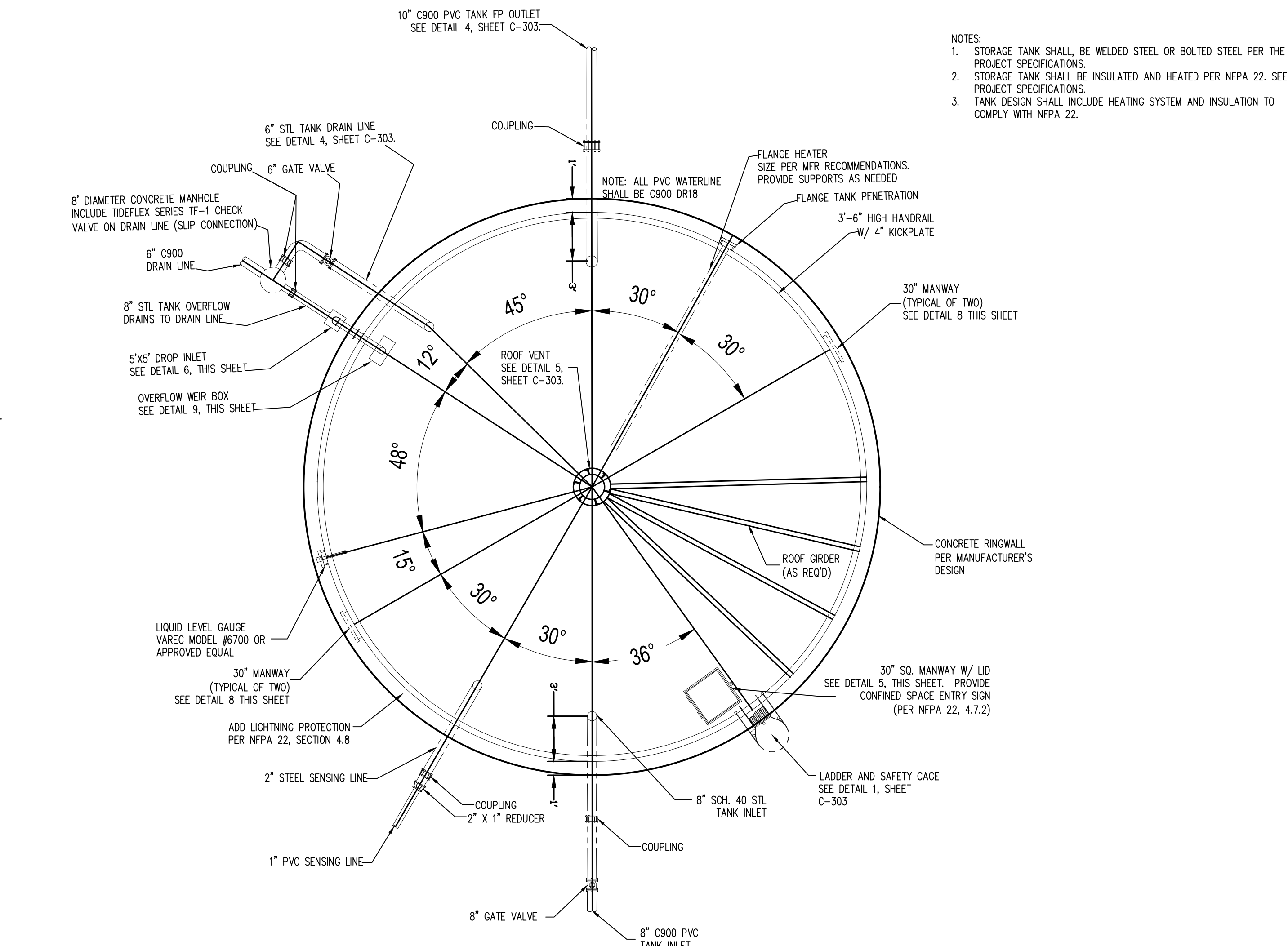
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SHEET TITLE
PROCESS DIAGRAM

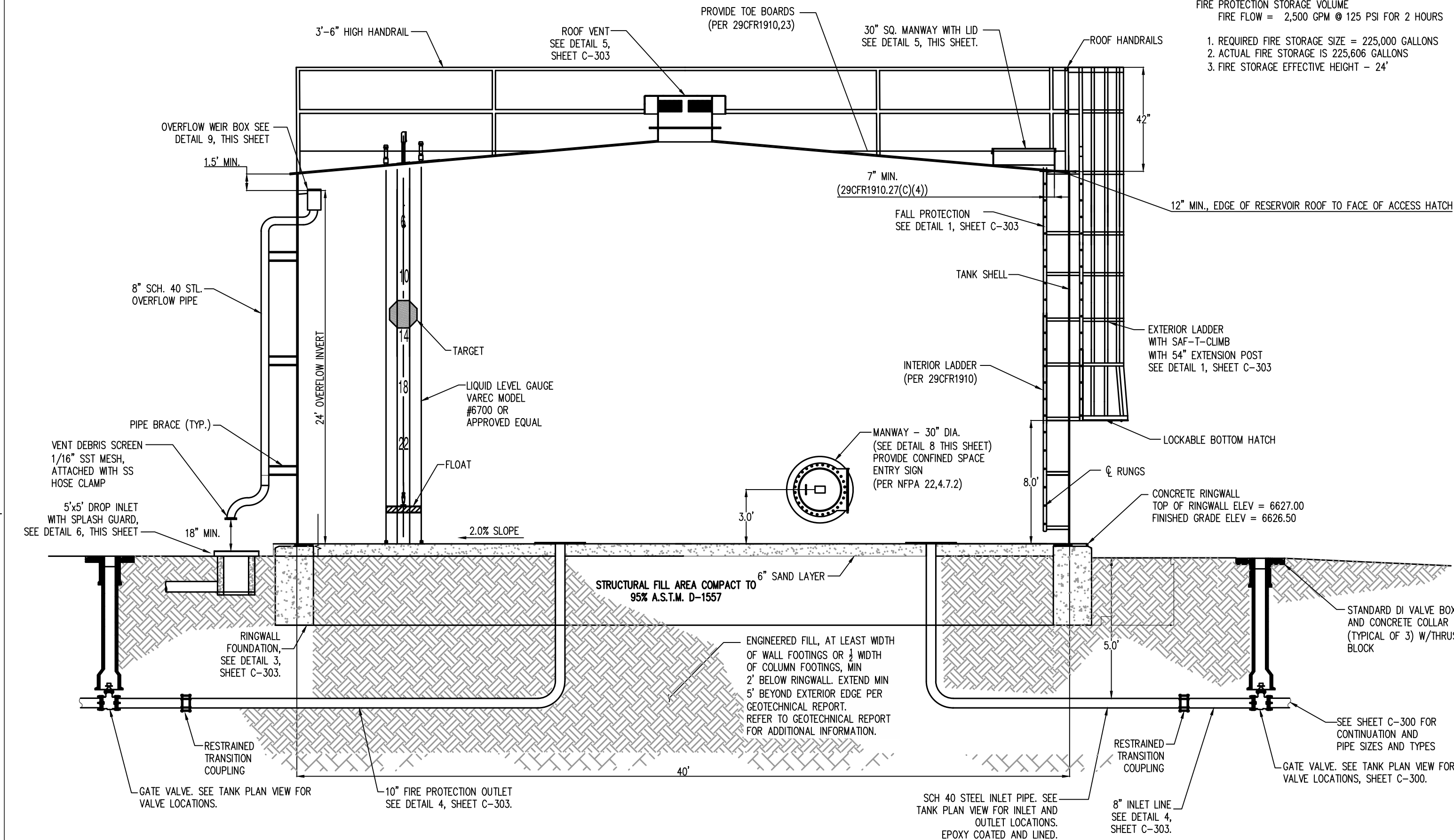
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C-301

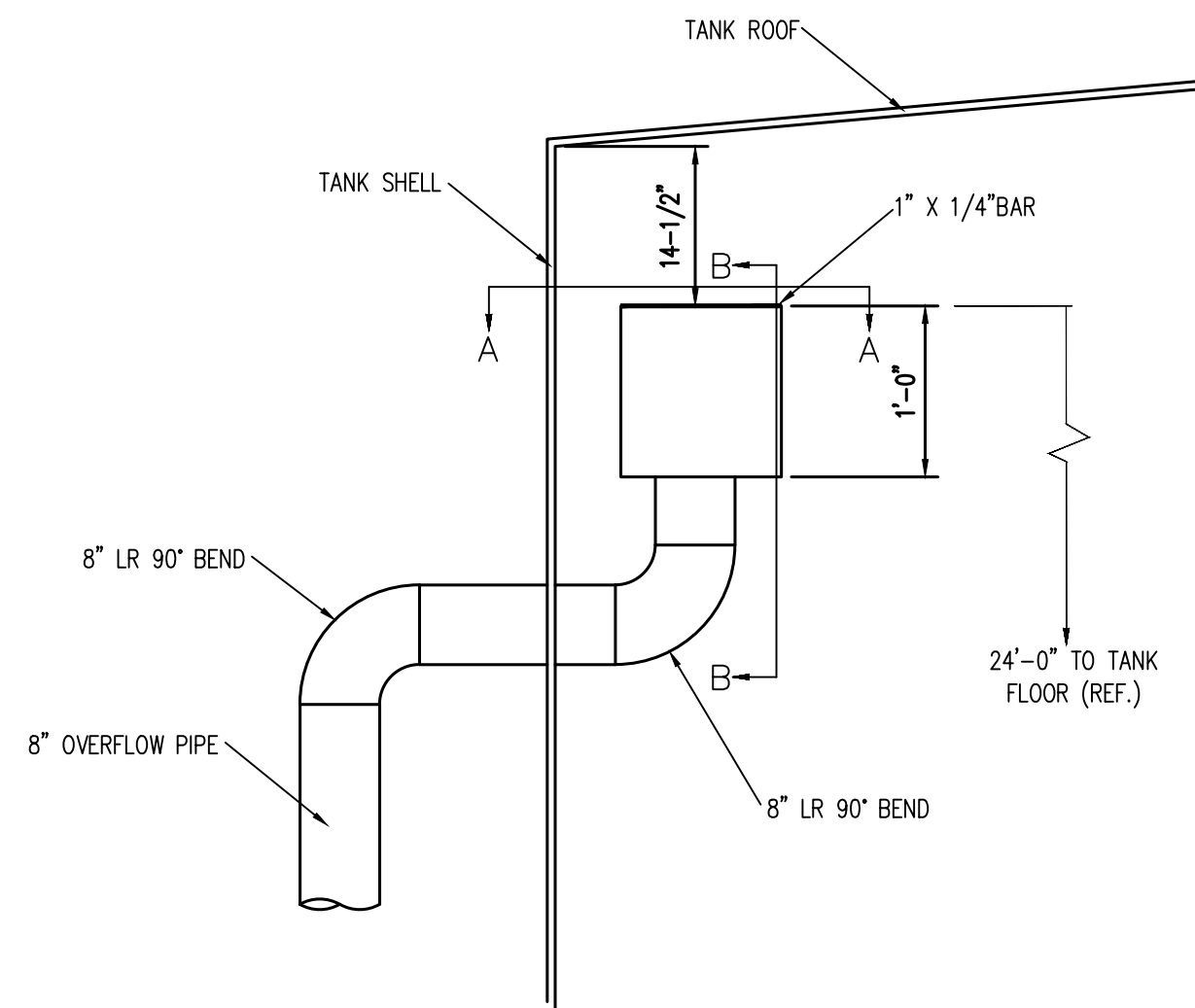
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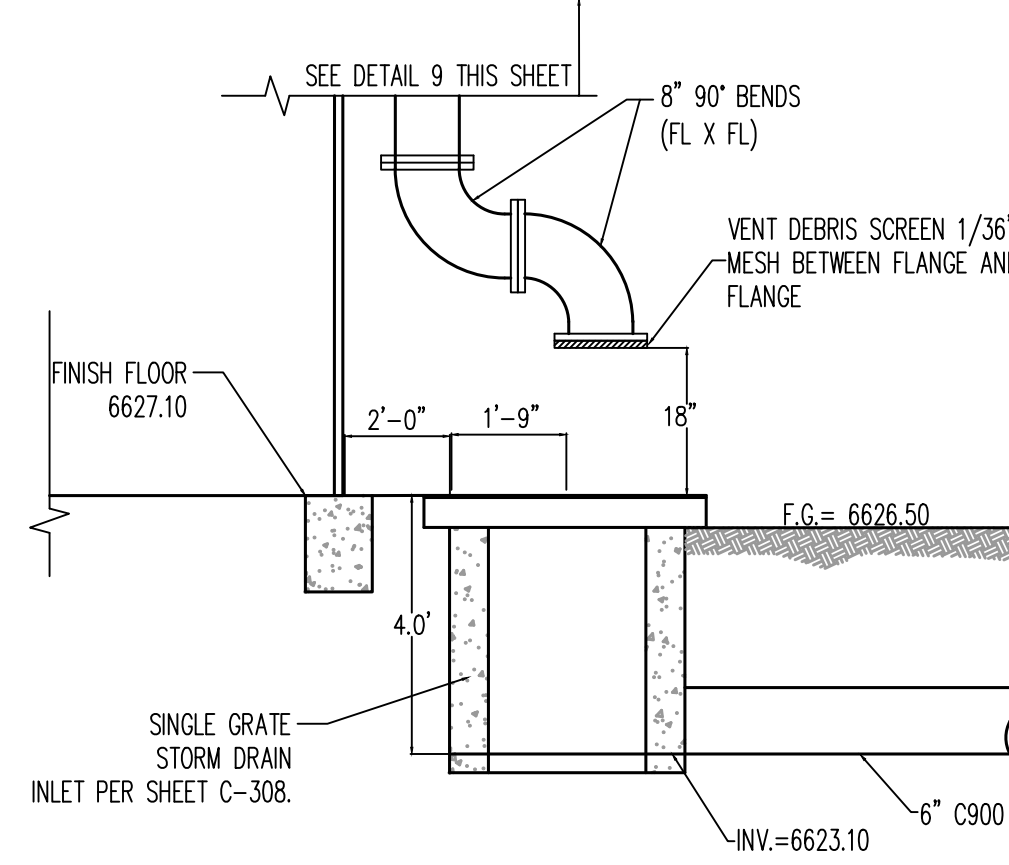
2 TANK PLAN VIEW
SCALE: NOT TO SCALE



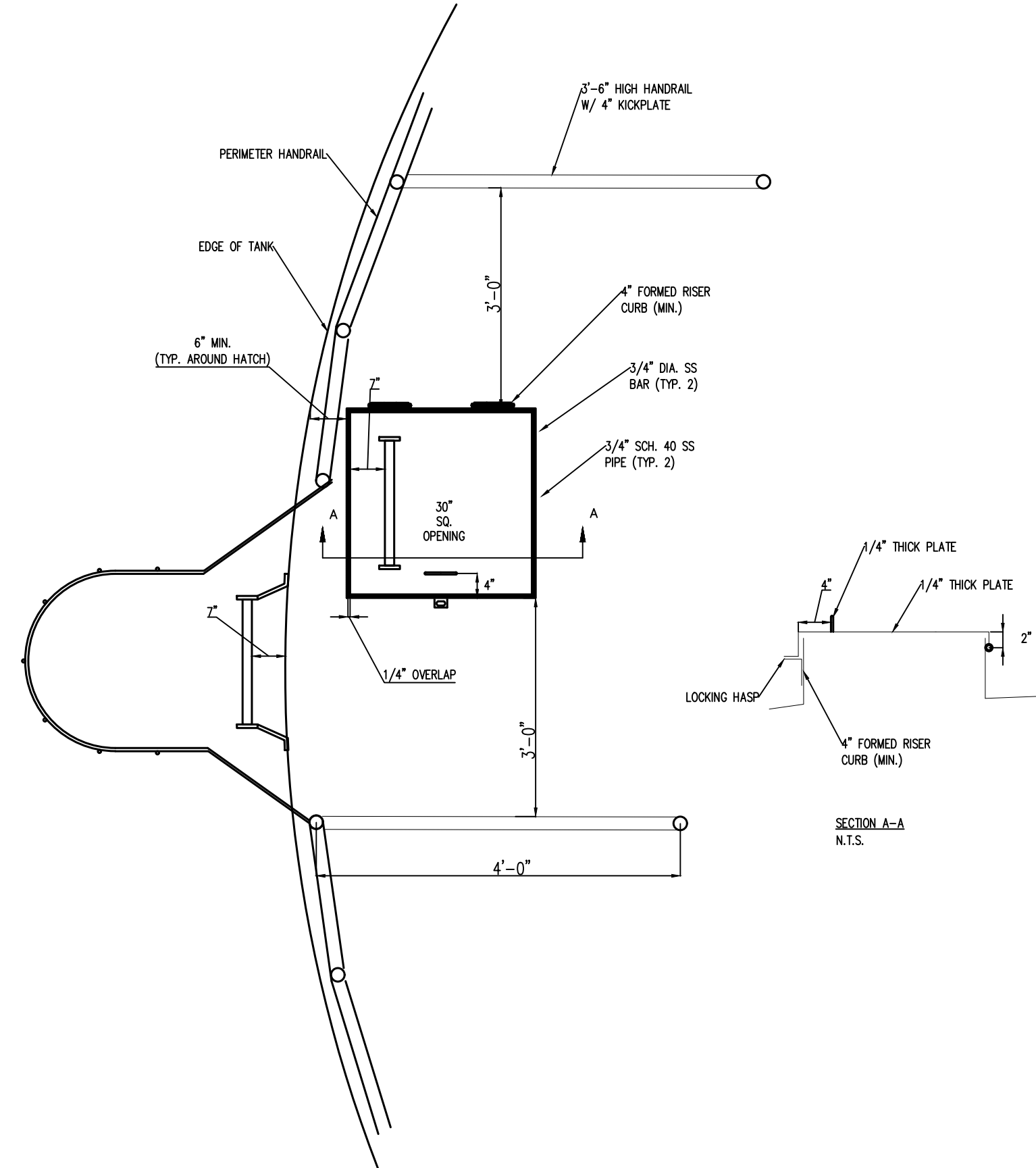
1 TANK PROFILE
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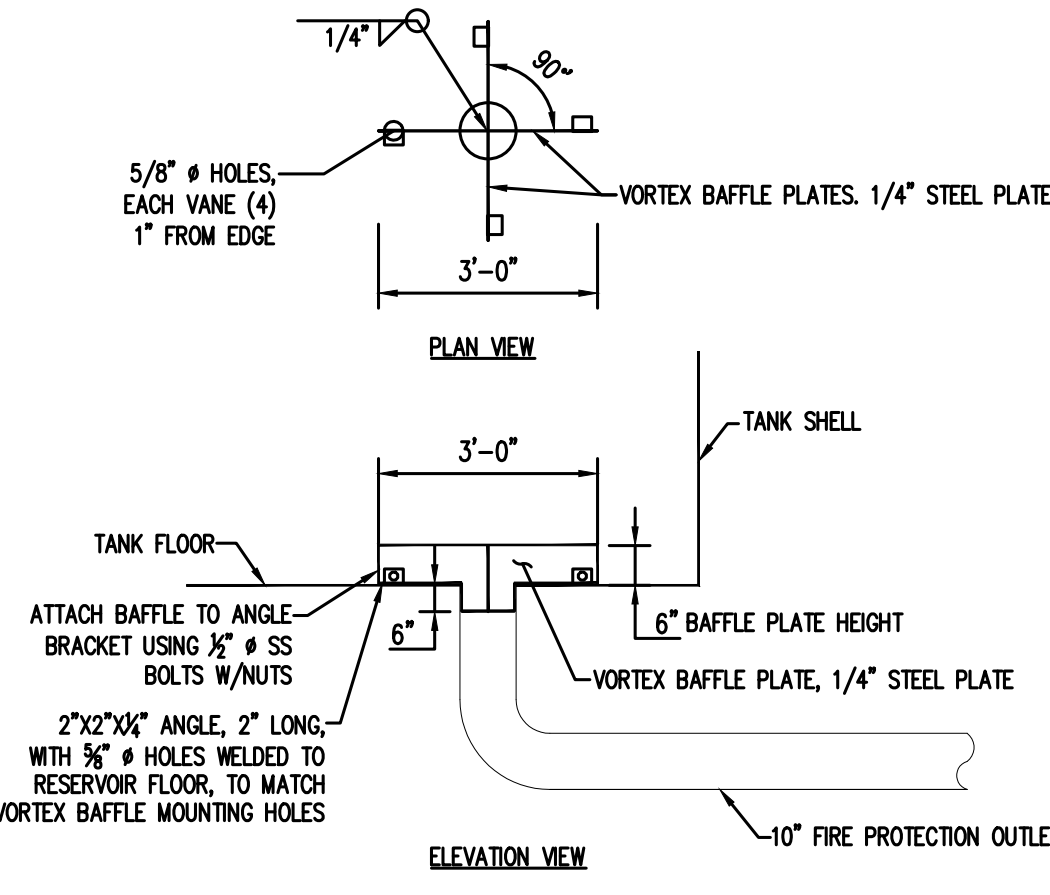
9 OVERFLOW WEIR BOX DETAIL
SCALE: NOT TO SCALE



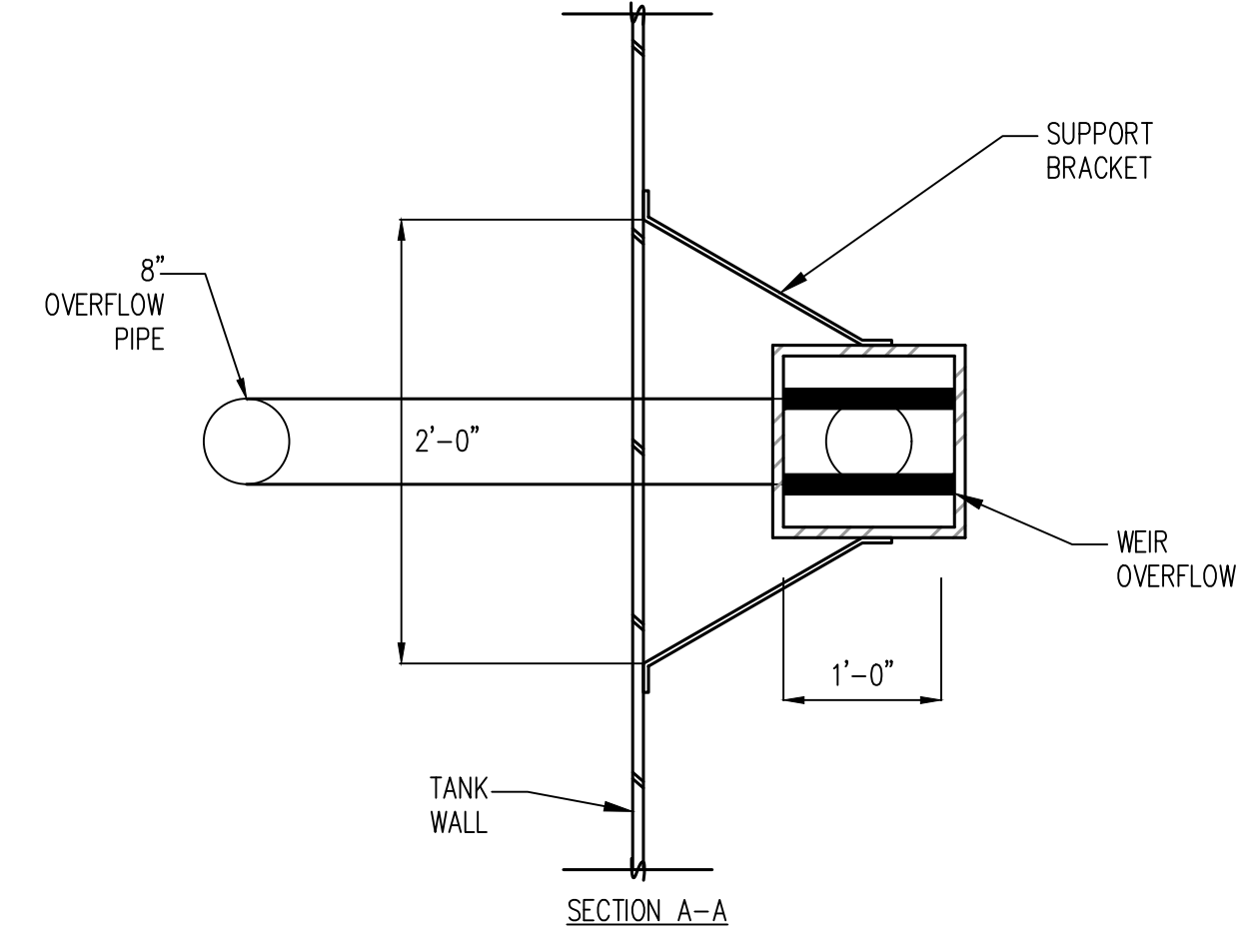
6 8" OVERFLOW DRAIN & AIR GAP/DROP INLET
SCALE: NOT TO SCALE



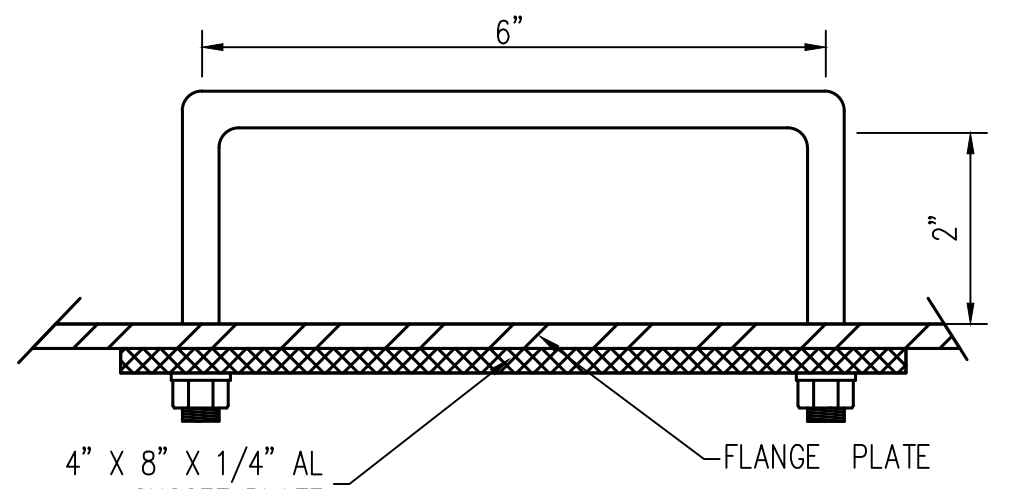
5 ROOF MANWAY HATCH DETAIL
SCALE: NOT TO SCALE



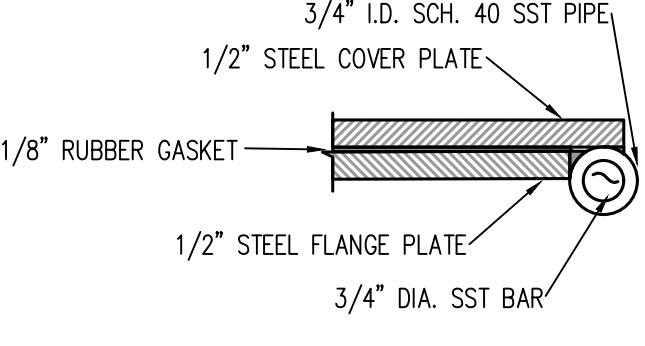
7 VORTEX BAFFLE OUTLET LINE
SCALE: NOT TO SCALE



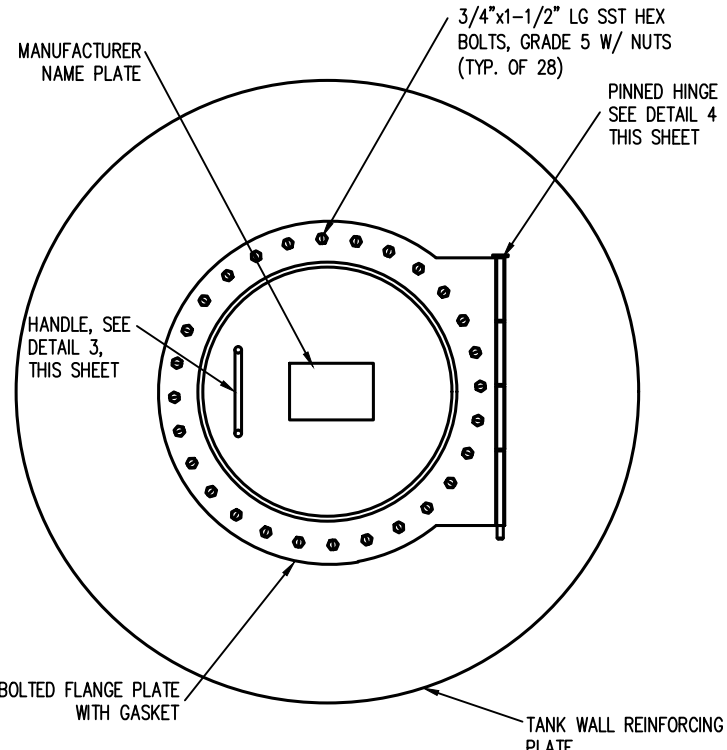
8 30" MANWAY DETAIL
SCALE: NOT TO SCALE



3 LID HANDLE DETAIL
SCALE: NOT TO SCALE



4 MANWAY HINGE DETAIL
SCALE: NOT TO SCALE



30" MANWAY DETAIL
SCALE: NOT TO SCALE

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

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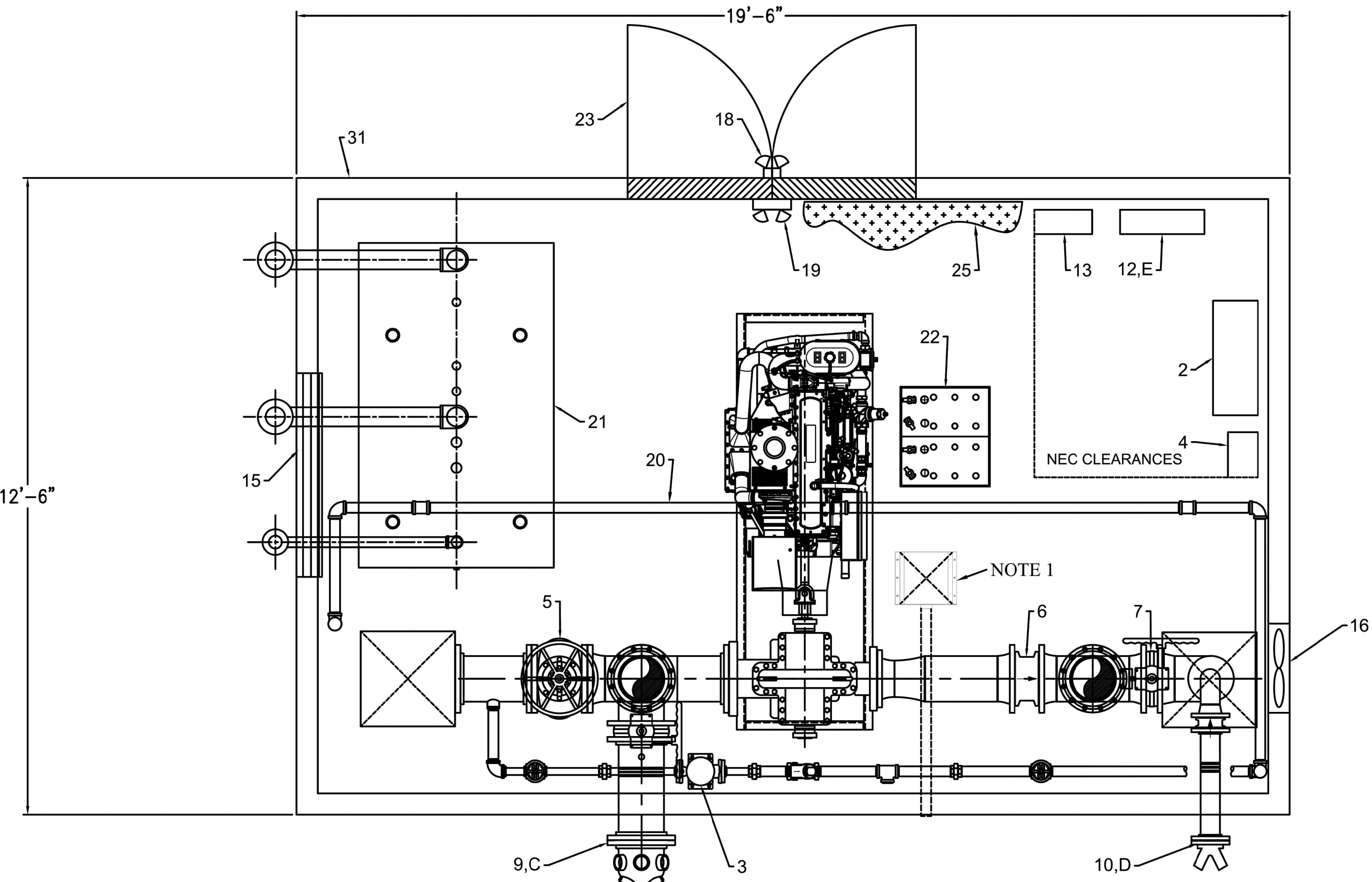
SHEET TITLE
FIRE PROTECTION
CIVIL DETAILS

SHEET NUMBER

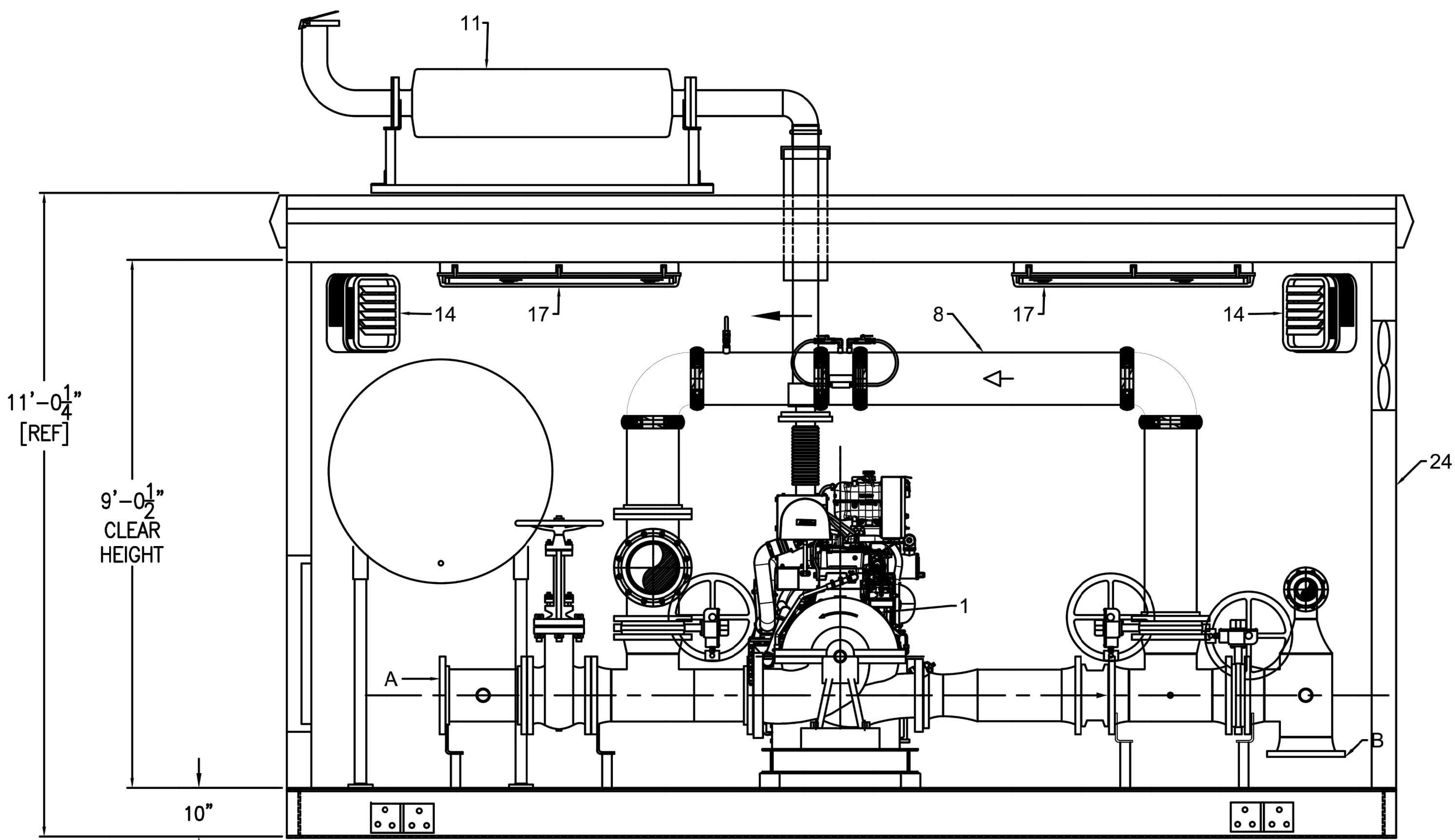
C-302

Sequence of

GENERAL NOTES:
1. CONTRACTOR TO PROVIDE SKID-MOUNTED, PACKAGED BOOSTER STATION WITH ENCLOSURE MEETING PERFORMANCE REQUIREMENTS OF THIS SHEET AND SPECIFICATION SECTION 33 52 19.
2. FOUNDATION PER DETAIL 3, SHEET C-206.



TOP VIEW



FRONT VIEW

LEGEND:

1. FIRE PUMP: AURORA #8-481-17B 2500 GPM @ 125 PSI WITH SUCTION AND DISCHARGE GAUGES, AIR RELEASE VALVE, DIESEL ENGINE CLARKE #JW6H-UFADJQ, 290 HP
2. FIRE PUMP CONTROLLER: TORNATECH, 230/1/60
3. JOCKEY PUMP WITH PIPING: AURORA #PVM5-12, 5 HP WITH TEFC MOTOR, NIBCO #KT-403-W 1.25" CHECK VALVE AND (2) NIBCO #T-104-0 1.25" GATE VALVES
4. JOCKEY PUMP CONTROLLER: TORNATECH, 230/3/60
5. SUCTION VALVE: NIBCO #F-607-RW 10" OS&Y GATE VALVE WITH SUPERVISORY SWITCH
6. CHECK VALVE: NIBCO #KW-900-W 10" WAFER STYLE CHECK VALVE
7. DISCHARGE CONTROL VALVE: NIBCO #LD3510-8 10" BUTTERFLY VALVE WITH SUPERVISORY SWITCH (NO)
8. FLOW METER WITH GROOVED ENDS: 10" PIPING WITH (2) #LD3510C-8 10" BUTTERFLY VALVES WITH SUPERVISORY SWITCH (NC)
9. TEST MANIFOLD: 10" PIPING WITH (8) 2-1/2" NPT HOSE VALVES, NIBCO #LD3510C-8 10" BUTTERFLY VALVE WITH SUPERVISORY SWITCH (NC)
10. FIRE DEPARTMENT CONNECTION: 4" PIPING WITH NIBCO #KW-900-W 4" CHECK VALVE
11. MUFFLER 6"
12. NEMA 1 BUILDING MAIN POWER DISTRIBUTION PANEL
13. NEMA 1 SUPERVISORY PANEL
14. 5KW HEATER WITH SAFETY SWITCH (QTY 2)
15. AUTOMATIC LOUVER FOR COMBUSTION AIR AND VENTILATION
16. EXHAUST FAN
17. INTERIOR LIGHTS
18. EXTERIOR LIGHT
19. EMERGENCY LIGHT
20. SPRINKLER SYSTEM WITH PENDANT TYPE HEADS, INCLUDES POTTER #VSR-SF FLOW SWITCH, NIBCO #KT-505-W-8 1.25" BALL VALVE WITH SUPERVISORY SWITCH (NOT SHOWN, SEE P&ID)
21. FUEL TANK: 451 GALLON DOUBLE WALL TANK WITH FUEL FILL AND VENT FITTINGS, SCHED 40 STEEL PIPE SUPPORTS, HIGH/LOW FUEL LEVEL SENSORS
22. BATTERIES, RACK AND CABLES
23. 6070 DOUBLE DOOR
24. BUILDING ENCLOSURE
25. STEEL TREADPLATE FLOOR

NOTES:

1. ALL DRAIN PIPING TO TERMINATE IN THIS LOCATION. MAIN DRAIN LINE IS PIPED TO OUTER PERIMETER.

MAIN CUSTOMER CONNECTIONS:

- A. SUCTION: 10" FLANGED CL150
- B. DISCHARGE: 10" FLANGED CL150
- C. TEST HEADER: 10" FLANGED CL150
- D. FIRE DEPARTMENT CONNECTION (FDC): 4" FLANGED CL150
- E. POWER: SINGLE POINT 230/3/60

ITEMS TO SHIP LOOSE:

1. TEST HEADER AND HOSE VALVES
2. FUEL VENT AND FUEL FILL PIPING
3. MUFFLER, EXTERNAL PIPING AND HARDWARE
4. EXTERIOR LIGHTING
5. EXTERIOR PIPING CONNECTIONS
6. BATTERIES, RACK & CABLES
7. FDC
8. LIFTING BRACKETS

PLEASE NOTE

All dimensions indicated are approximate and will vary due to manufacturing tolerances. Do not complete field piping until the system is properly installed. Canariis Corporation accepts no liability for expenses incurred due to dimensional variances.

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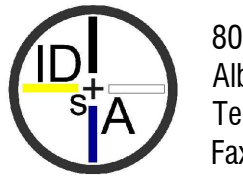
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DWN BY: MK	DATE: 10/4/21	SCALE:	REV.
APPV BY:	DATE:	DWG NO.: F-0122-21	PAGE 1 OF 1

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

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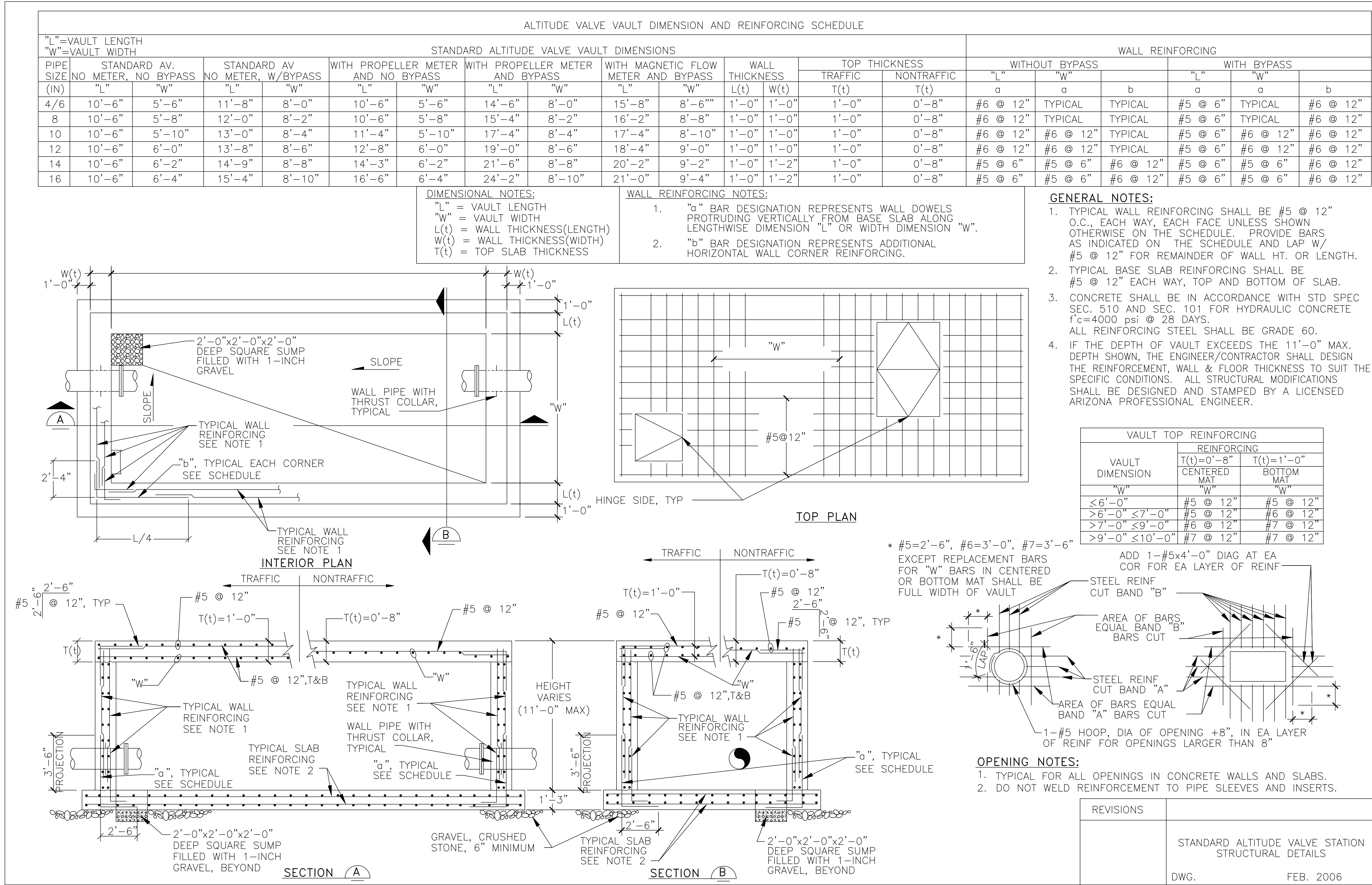
SHEET TITLE

FIRE PROTECTION
PUMP HOUSING

SHEET NUMBER

C-304

Sequence of



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS - PROGRESS

FEBRUARY 18, 2022

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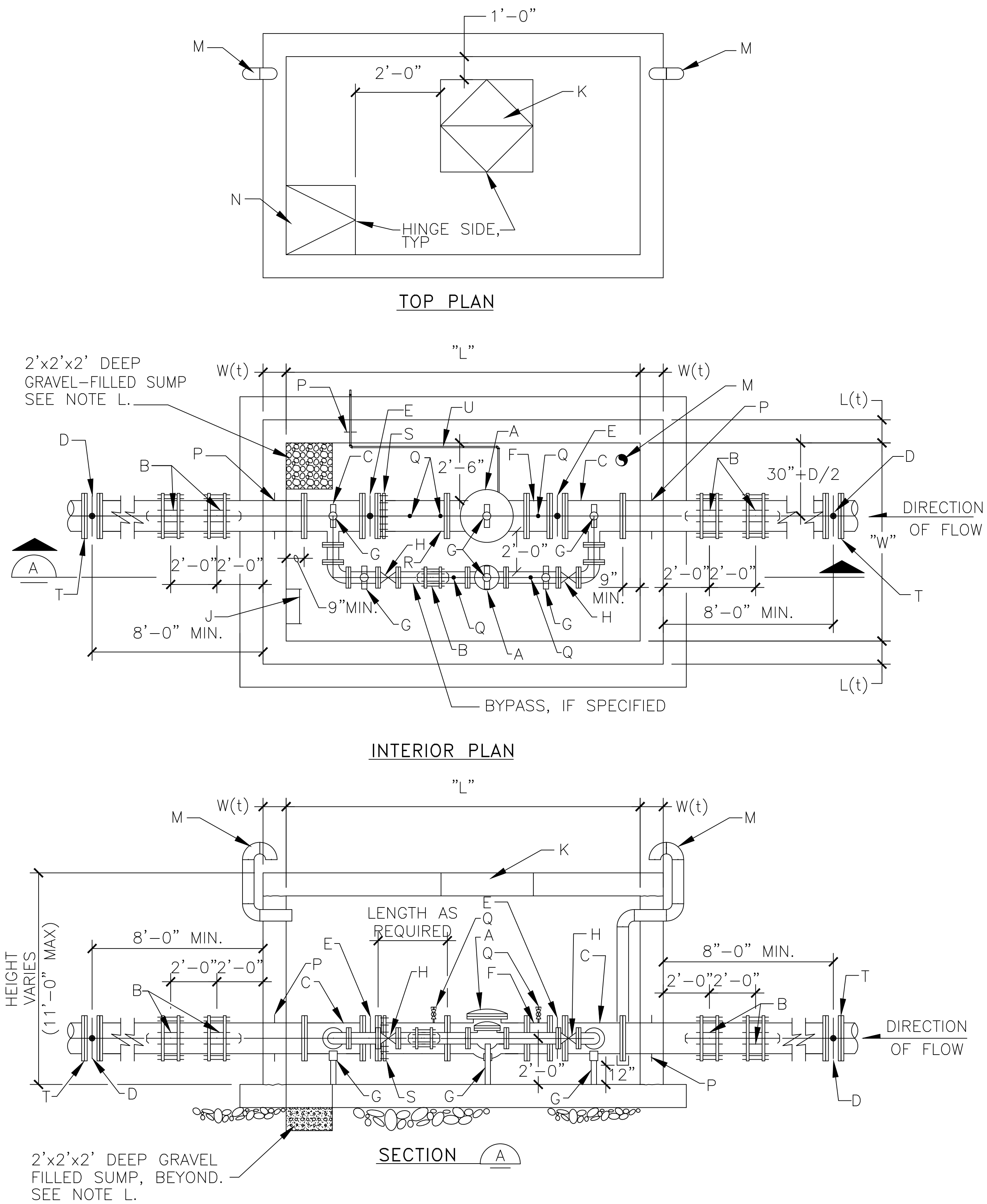
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SHEET TITLE
ALTITUDE VALVE
STATION
STRUCTURAL DETAIL

SHEET NUMBER

C-305

Sequence of



GENERAL NOTES:

- FOR STRUCTURAL DETAILS, VAULT DIMENSIONS AND REINFORCING SEE MANUFACTURER SPECIFICATIONS.

CONSTRUCTION NOTES:

- ALTITUDE VALVE LOCATION, FINAL DESIGN AND LAYOUT SHALL BE APPROVED BY THE WATER UTILITY DIVISION TO CONFORM WITH SPECIFIC SYSTEM AND SITE REQUIREMENTS.
- ALTITUDE VALVE STATION ACCESS OPENING COVERS SHOWN ON THIS STANDARD DETAIL ARE SUITABLE FOR LOCATIONS NOT EXPOSED TO CONTINUOUS HIGH DENSITY TRAFFIC. IF ALTITUDE VALVE STATION MUST BE LOCATED IN AREAS OF CONTINUOUS HIGH DENSITY TRAFFIC THE ACCESS OPENING COVERS SHALL BE SPECIFICALLY DESIGNED TO WITHSTAND THE CONDITIONS AND LOADINGS TO BE ENCOUNTERED.
- ALUMINUM FLOOR DOORS AND FRAME FOR LOCATIONS SUBJECT TO INTERMITTENT AND LIGHT DENSITY TRAFFIC SHALL BE DESIGNED TO WITHSTAND A LIVE LOAD OF THE AASHTO H-20 DESIGNATION AND SHALL BE FLUSH WITH TOP OF VAULT.
- ALUMINUM FLOOR DOORS AND FRAMES FOR LOCATIONS OUT OF ROADWAYS AND NOT SUBJECT TO TRAFFIC LOADINGS SHALL BE DESIGNED TO WITHSTAND A LIVE LOAD OF 300 POUNDS PER SQUARE FOOT AND SHALL EXTEND 3-INCHES MINIMUM ABOVE TOP OF VAULT.
- 6-INCH VENT PIPING SHALL BE ROUTED SUCH THAT THE ABOVE GROUND GOOSENECK AND INSECT SCREEN ARE LOCATED OUT OF VEHICULAR OR PEDESTRIAN TRAFFIC AREAS.
- BYPASS IS NOT REQUIRED FOR THIS PROJECT.

A 4" CLA-VAL ALTITUDE VALVE, MODEL NO. 210-0101BC2PRSVYKC-SST ALTITUDE VALVEM, ONE WAY FLOW. GLOBE STYLE, FULL PORT, FLANGED CLASS 150, DUCTILE IRON MAIN VALVE, WITH Buna-N DIAPHRAGM, FUSION BONDED EPOXY COATING INTERIOR/EXTERIOR, AND STAINLESS STEEL TRIM & FASTENERS. STAINLESS STEEL PILOT SYSTEM WITH BRAIDED FLEX TUBING, (3) BALL VALVES, (2) PRESSURE GAUGE & BLEEDER VALVE ASSEMBLIES (0-100PSI UPSTREAM AND DOWNSTREAM), Y-STRAINER WITH BLOWDOWN BALL VALVE, OPENING AND CLOSING SPEED CONTROLS, RESERVOIR GAUGE WITH TESTER, VALVE POSITION INDICATOR, ALTITUDE PILOT SPRING RANGE 5-40FT OF WATER.

B FLEXIBLE COUPLING WITH THRUST TIES, SEE THRUST TIE DETAIL ON SHEET C327

C FLANGED TEE, REQUIRED ONLY IF BYPASS SPECIFIED

D BURIED BUTTERFLY VALVE (GATE VALVE FOR SIZE < 14")

E BUTTERFLY VALVE WITH HAND WHEEL OPERATOR (GATE VALVE FOR SIZE < 8"), REQUIRED ONLY WHEN BYPASS IS SPECIFIED.

F FLANGED SPOOL, LENGTH = 1'-0"

G ADJUSTABLE PIPE SADDLE SUPPORT, GRINNELL FIG. 264, ELCEN FIG. 50 OR EQUAL, TYPICAL

H GATE VALVE WITH HAND WHEEL OPERATOR, REQUIRED ONLY IF BYPASS SPECIFIED

J 1'-6" WIDE ALUMINUM LADDER W/LADDER UP SAFETY POST PER OSHA STANDARDS.

K ALUMINUM FLOOR DOOR WITH RECESSED HASP COVERED BY A HINGED LID FLUSH WITH TOP SURFACE. DOOR SIZE SHALL BE 4'x4' DOUBLE LEAF (WITHOUT BYPASS) AND 4'x6' DOUBLE LEAF (WITH BYPASS). HARDWARE AND HINGES SHALL BE 304 STAINLESS STEEL. BILCO TYPE JD, OR EQUAL.

L GRAVEL PER ASTM C33, NO. 57 GRAVEL.

M 6" STEEL PIPE W/GOOSENECK AND INSECT SCREEN

N 3'-0" SQ ALUMINUM FLOOR DOOR WITH RECESSED HASP COVERED BY A HINGED LID FLUSH WITH TOP SURFACE. HARDWARE AND HINGES SHALL BE 304 STAINLESS STEEL. BILCO TYPE J, OR EQUAL.

P WALL PIPE WITH THRUST COLLAR, CENTER IN WALL

Q 1/2" PIPE TAP WITH 1/2" BALL VALVE AND CAP

R D.I. SPOOL FLG. x P.E.

S MEGA FLANGE - FLANGE ADAPTER, AS MANUFACTURED BY EBAA IRON SALES, OR APPROVED EQUAL.

T INSULATING FLANGE KIT.

U 1" COPPER SENSING LINE.

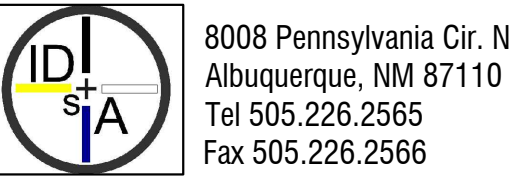
REVISIONS	
	STANDARD ALTITUDE VALVE STATION NO METER
DWG.	FEB. 2006

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

**INDIGENOUS DESIGN STUDIO +
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SHEET TITLE
ALTITUDE VALVE
STATION DETAIL

SHEET NUMBER

C-306

Sequence of

*SEE NOTES TIE ROD SCHEDULE			
TEST PRESSURE		150 PSI	
PIPE DIA. (IN.)	MINIMUM PIPE WALL THICKNESS (IN.)*	TIE RODS	
		DIA. (IN.)	NO. REQ'D
6	3/16	5/8	2
8	3/16	5/8	2
10	3/16	5/8	2
12	3/16	5/8	2
14	3/16	3/4	2
16	3/16	7/8	2

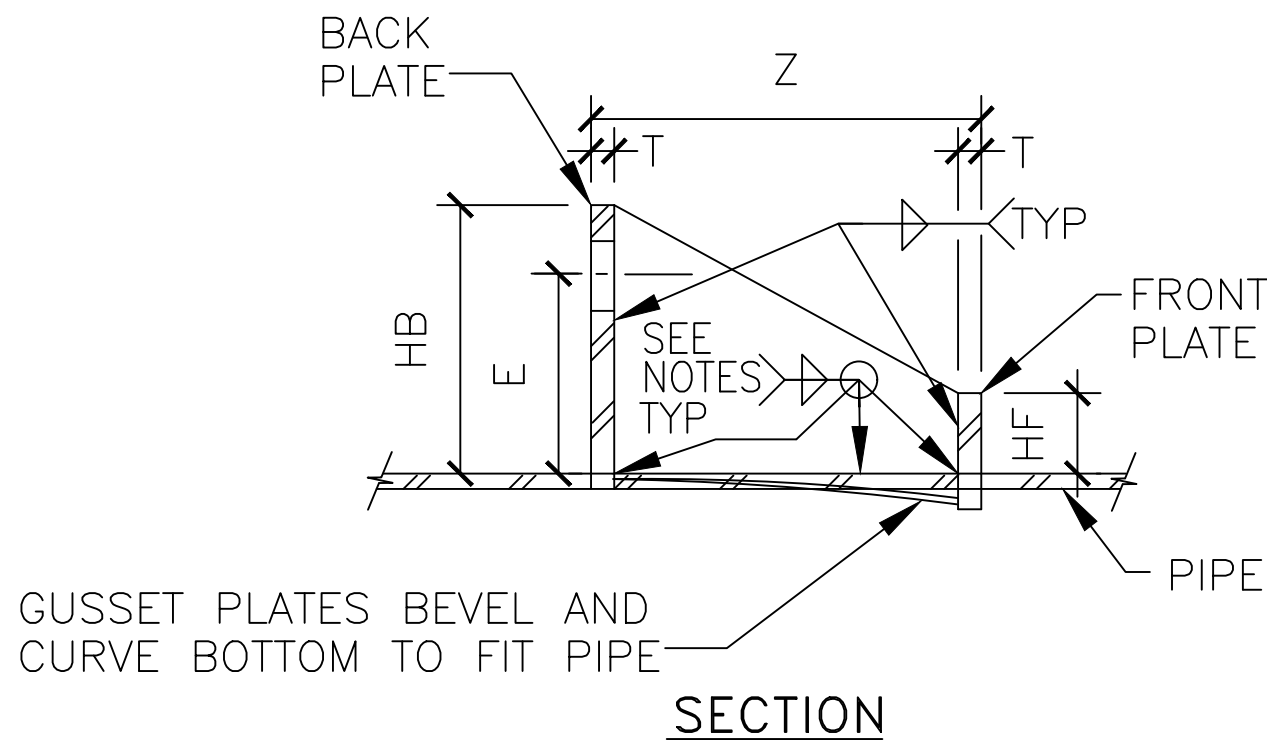
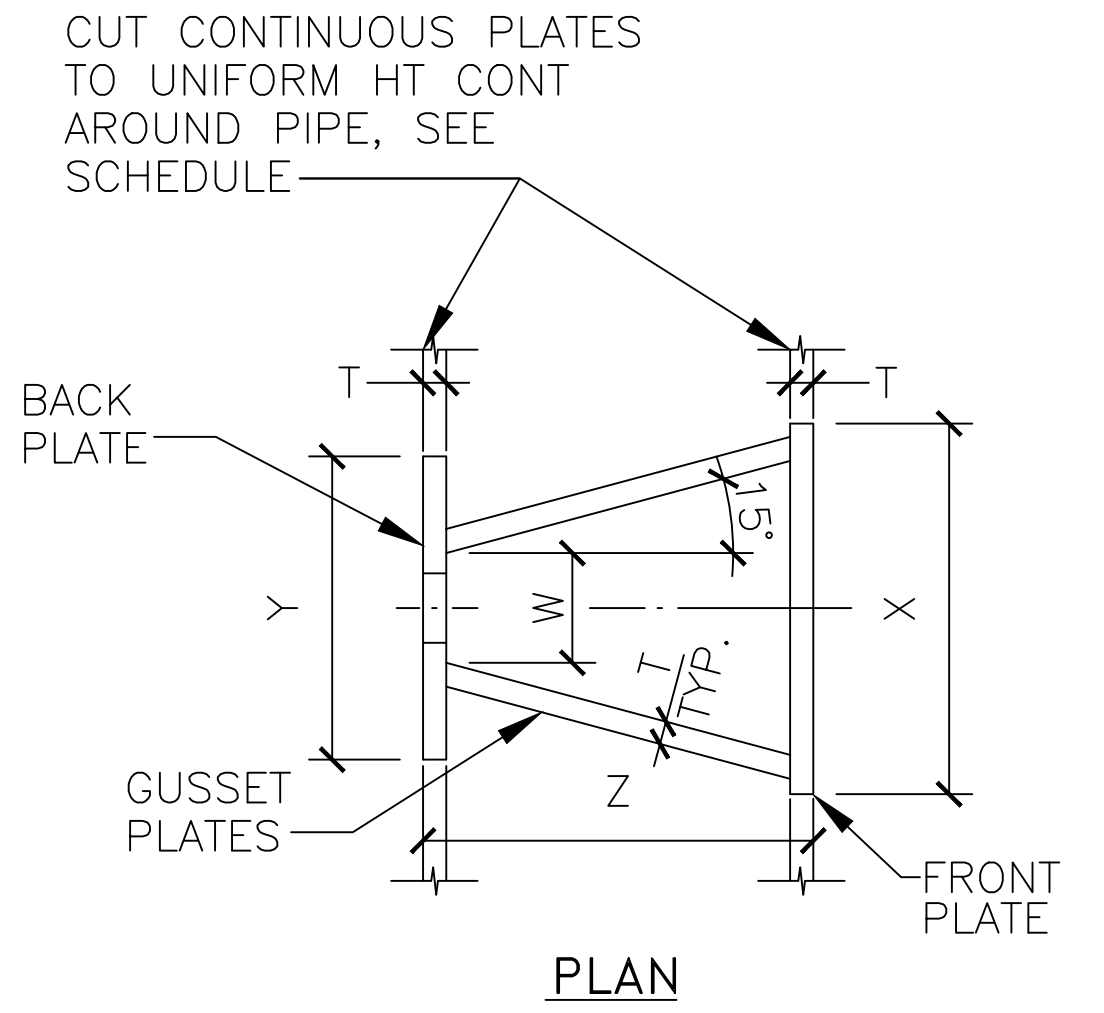
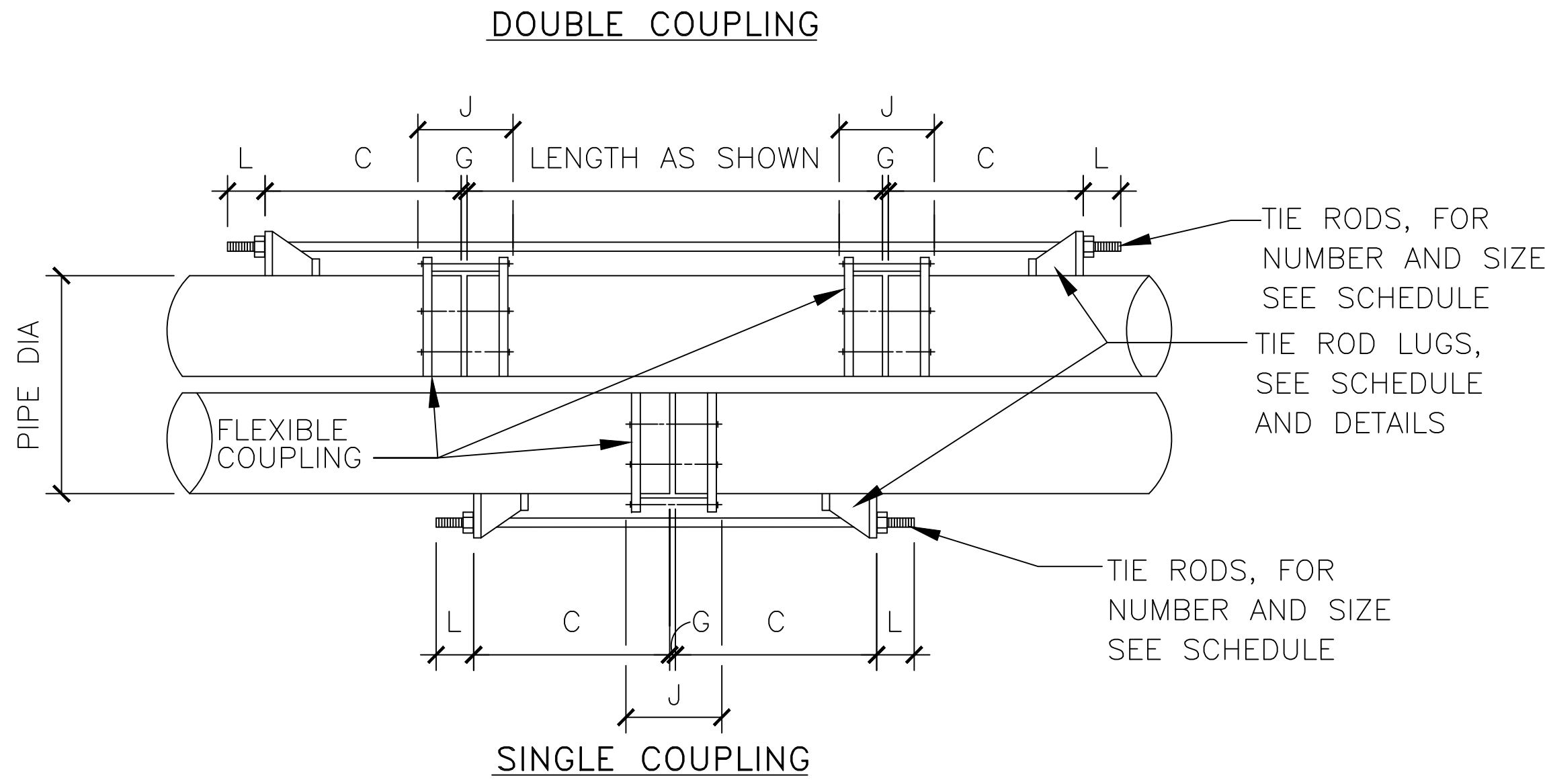
NOTES:

1. THE CONTRACTOR SHALL DETERMINE THE LENGTH "J" (COUPLING BOLT LENGTH) FROM MANUFACTURER'S CATALOGS USING THE SPECIFIED MIDDLE RING LENGTH.
2. "G" = MANUFACTURER'S RECOMMENDED SPACE BETWEEN ENDS OF PIPE.
3. "C" = J+Z+1 INCH, (ROUND THIS VALUE UP TO NEXT EVEN INCH), MINIMUM. (FOR Z DIMENSIONS, SEE LUG SCHEDULE.)
4. TIE ROD LENGTH = 2L+2C+G.

LUG SCHEDULE									
STUD DIA	T	W	X	Y	Z	HB	E	HF	L
5/8	3/8	1-3/8	4-1/16	4-1/2	3-3/8	3-7/8	3	1-3/4	3
3/4	3/8	1-1/2	5	4-1/2	5	4-1/8	3-1/8	1-3/4	3
7/8	1/2	1-5/8	5-1/2	4-1/2	5-1/8	4-1/4	3-1/8	1-3/4	4

NOTES:

1. LUG SCHEDULE DIMENSIONS IN INCHES.
2. TIE RODS SHALL CONFORM TO ASTM A193 GRADE B7.
3. NUTS SHALL CONFORM TO ASTM A194 GRADE 2H.
4. PLATE SHALL CONFORM TO ASTM A283 GRADE D.
5. TIE ROD NUTS SHALL BE TIGHTENED GRADUALLY AND EQUALLY IN STAGES TO PREVENT UNEVEN ALIGNMENT AND TO ALLOW EQUAL STRESS ON ALL TIE RODS UNDER PRESSURE. TIGHTEN UNTIL SNUG. THREADS SHALL PROTRUDE FROM NUTS. PEEN THREADS AFTER TIGHTENING NUTS.
6. TIE ROD LUGS SHALL BE SPACED EQUALLY AROUND PIPE.
7. FILLET WELDS SHALL MEET THE MINIMUM REQUIREMENTS OF THE AISC SPECIFICATION EXCEPT AS FOLLOWS: FILLET WELDS SHALL BE 1/4-INCH MINIMUM EXCEPT WHEN WELDING 3/16-INCH PLATE WHERE THEY SHALL BE 3/16-INCH.
8. TIE RODS SHALL NOT BE ATTACHED TO A PIPE WHEN THE WALL THICKNESS IS LESS THAN THE MINIMUM SHOWN ON THE TIE ROD SCHEDULE.
9. FOR ALL BURIED ASSEMBLIES, COAT ALL TIE RODS AND EXPOSED STEEL WITH 16 MILS BITUMASTIC.



REVISIONS	
	WATER THRUST TIE DETAIL
DWG.	FEB. 2006

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS - PROGRESS

FEBRUARY 18, 2022

OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

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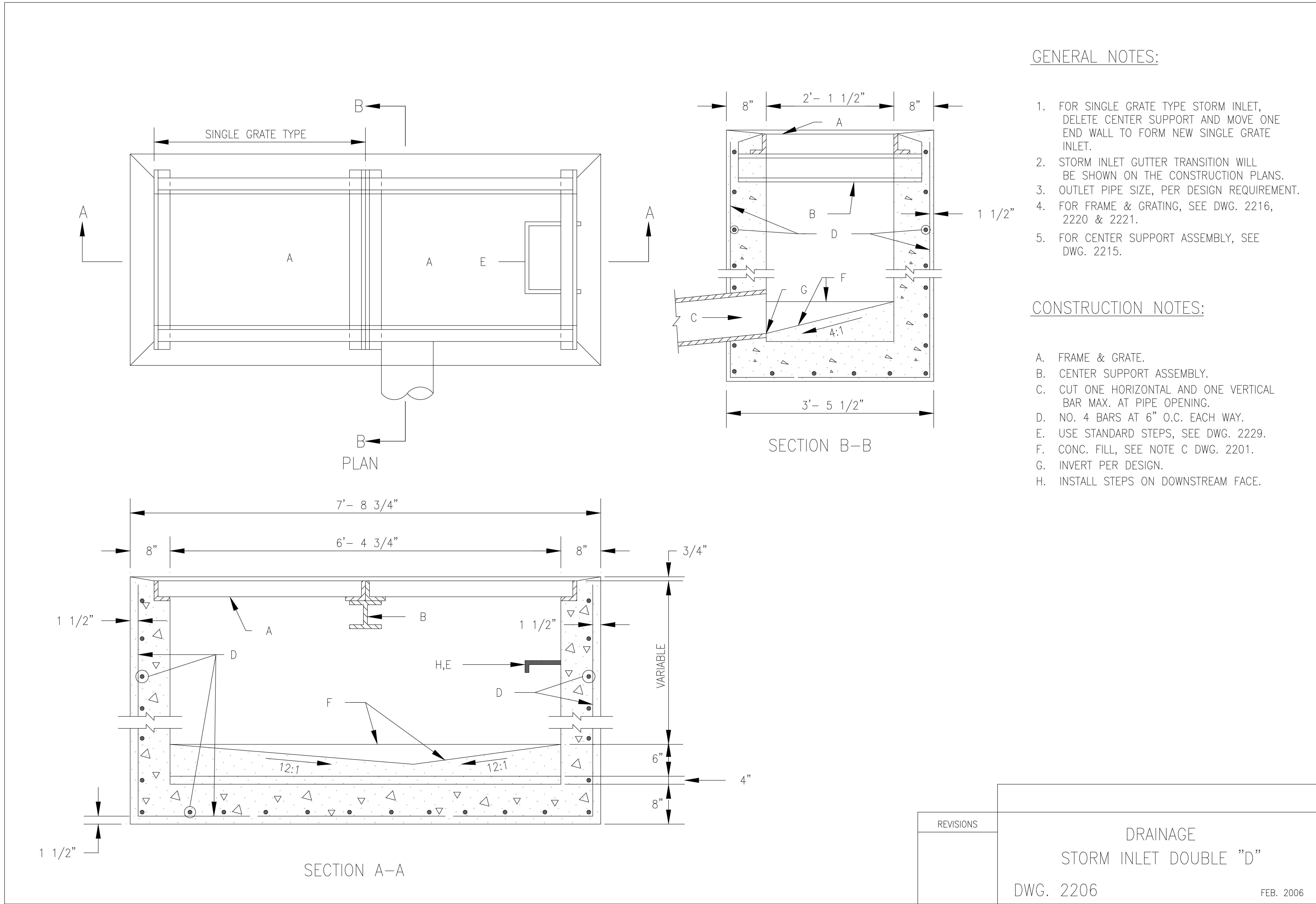
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SHEET TITLE
THRUST TIE
DETAIL

SHEET NUMBER

C-307

Sequence of



REVISIONS

DRAINAGE
STORM INLET DOUBLE "D"
DWG. 2206

FEB. 2006

CHURCH ROCK PHASE II FACTORY

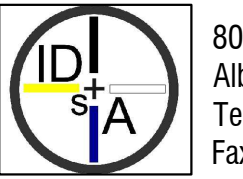
CHURCH ROCK, NEW MEXICO

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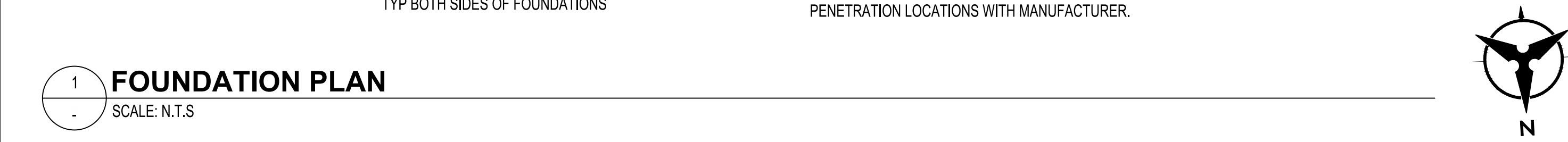
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DETAIL

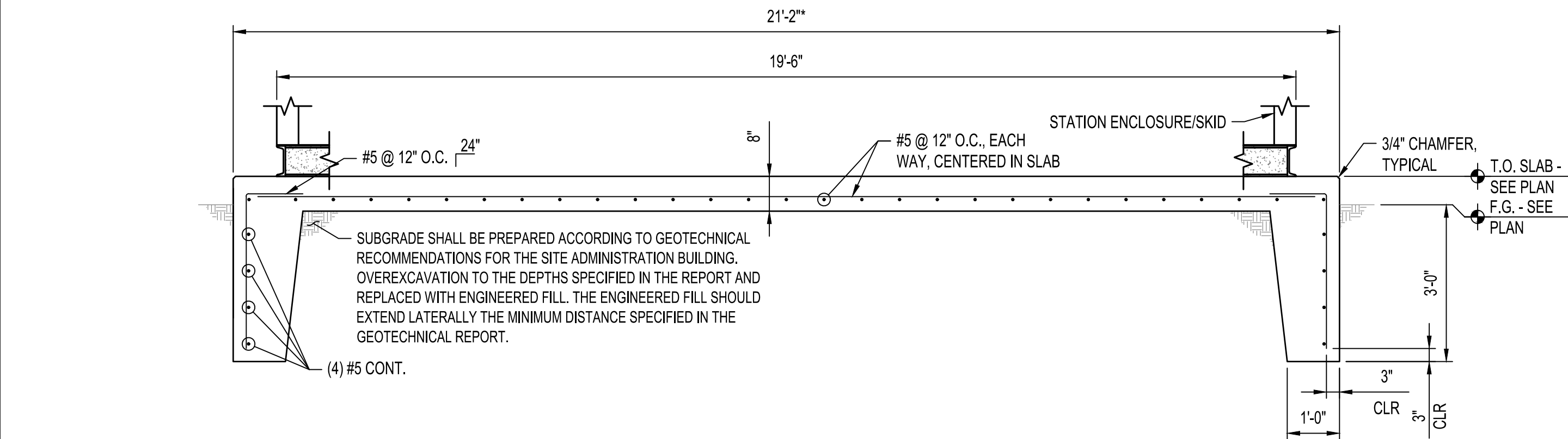
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C-308

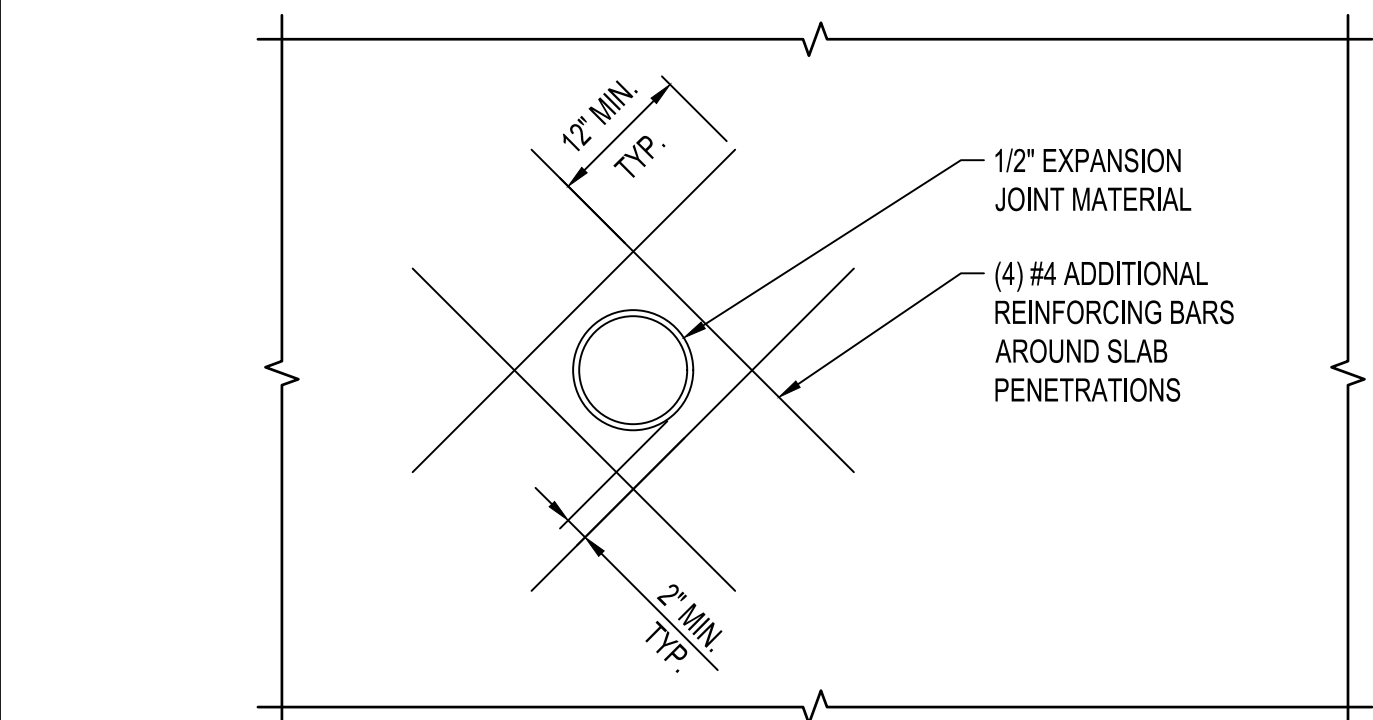
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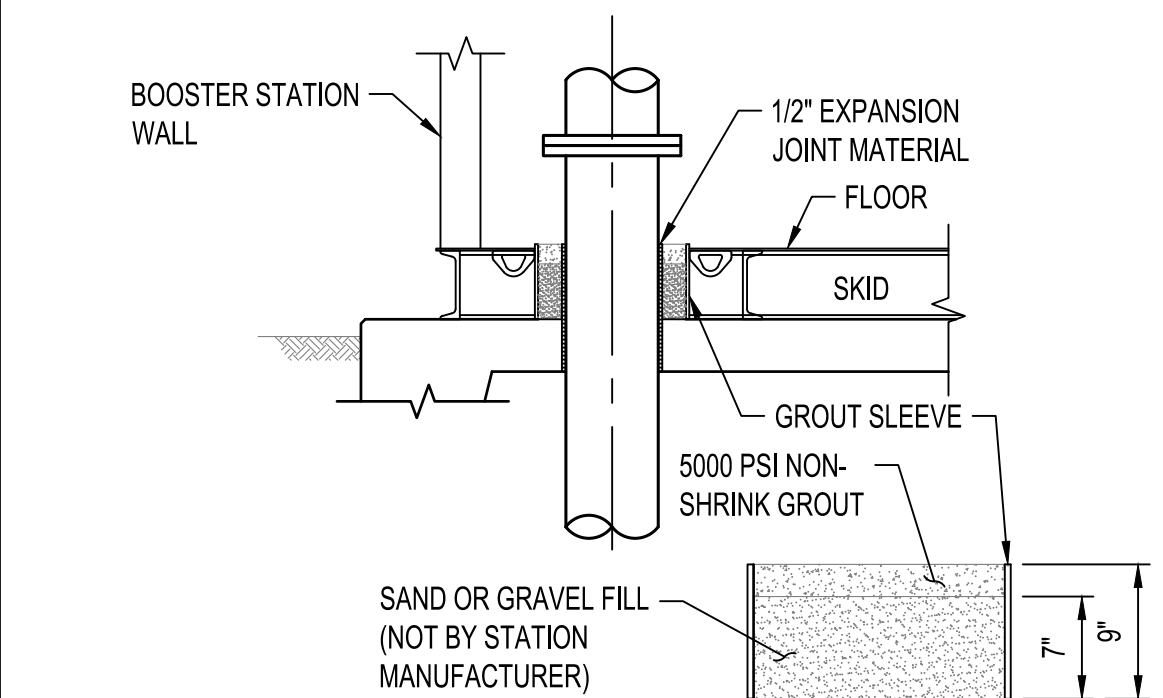
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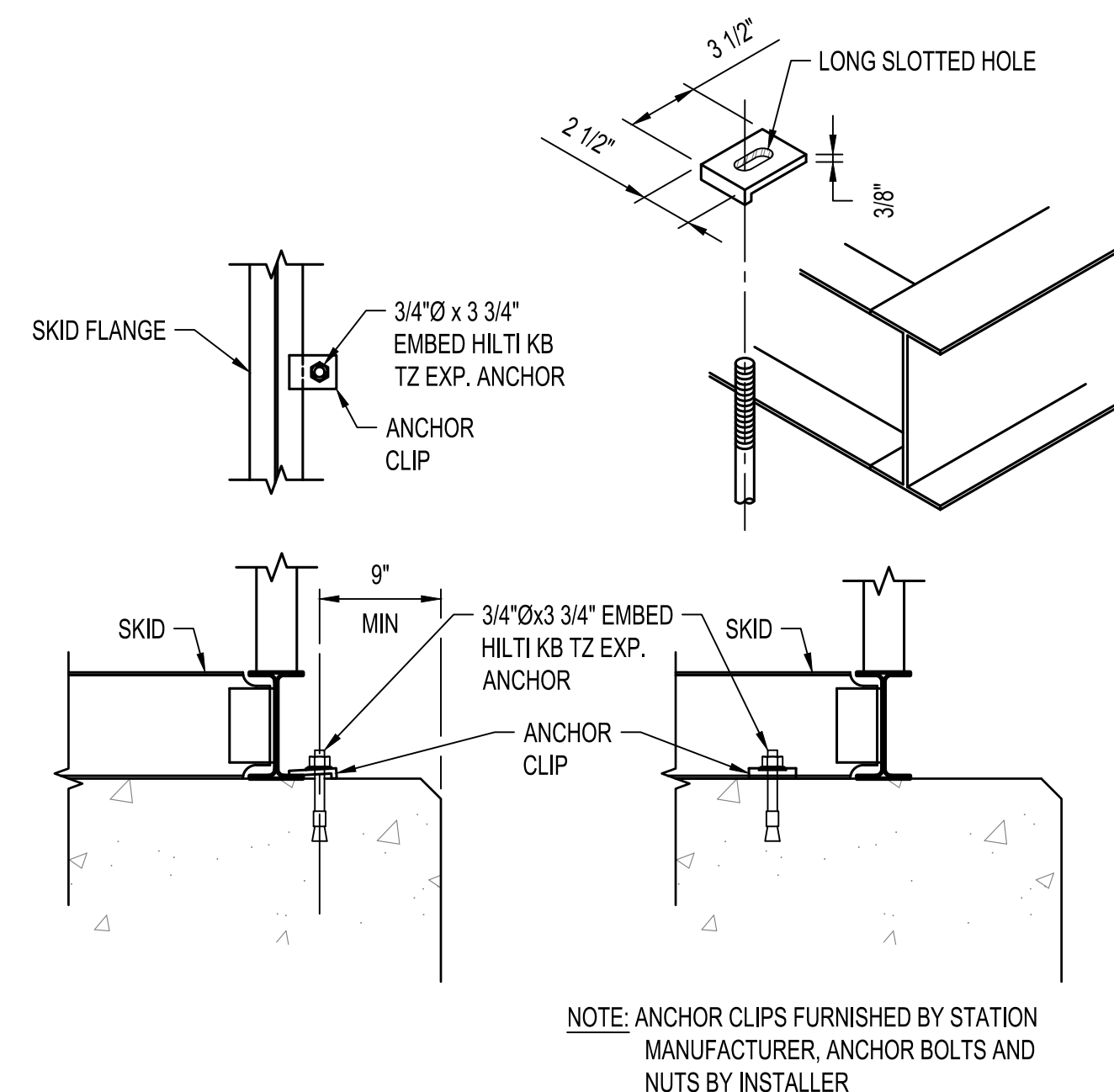
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SCALE: N.T.S.



3 TYPICAL PENETRATION DETAIL
SCALE: N.T.S.



4 TYPICAL GROUT DETAIL
SCALE: N.T.S.



5 TYPICAL ANCHOR DETAILS
SCALE: N.T.S.

FOUNDATION NOTES FOR SLAB

- CAST-IN-PLACE CONCRETE: WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE PROJECT SPECIFICATIONS. (f_c = 3000 PSI @ 28 DAYS, AIR ENTRAINED).
- REINFORCING STEEL: STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATIONS, AND SHALL CONFORM TO ASTM A615, GRADE 60. ALL DIMENSIONS ARE TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE THE SEE THAT ALL REBAR IS PROPERLY ALIGNED AND TIED IN PLACE BEFORE PLACING CONCRETE. ALL STEEL SHALL BE ACCURATELY LOCATED AND SECURED IN PLACE SO THAT IT REMAINS IN POSITION DURING THE PLACEMENT OF THE CONCRETE. SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN THREE (3) FEET APART. ANY REBAR IMPROPERLY INSTALLED SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- SUBGRADE PREP: OVEREXCAVATE AND BACKFILL 2'-0" WITH ENGINEERED FILL MOISTENED TO A NEAR OPTIMUM MOISTURE CONTENT (\pm 3.0%), AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557.
- FOUNDATION CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE GEOTECHNICAL REPORT FOR THE SITE ADMINISTRATION BUILDING PREPARED BY TERRACON, PROJECT NUMBER 66195084, DATED JULY 17, 2019 PROVIDED BY BERNALILLO COUNTY. THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS OF THE REPORT.
- ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLT ANCHORS, PIPES SLEEVES, ETC. SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING CONCRETE AND ARE INCIDENTAL TO THE SLAB CONSTRUCTION.
- THE CONTRACTOR SHALL CLEAN ALL CONSTRUCTION DEBRIS FROM THE AREA.
- CONDUIT AND PIPE LOCATIONS: COORDINATE WITH ELECTRICAL, FUEL, AND MANUFACTURER'S SHOP DRAWINGS FOR SLAB PENETRATIONS.

GENERAL NOTES

CODES AND MANUALS

- INTERNATIONAL BUILDING CODE, 2015 EDITION AND THE 2015 EDITION OF NFPA 5000 "BUILDING CONSTRUCTION AND SAFETY CODE", WHICHEVER IS MOST STRINGENT
- BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-14
- MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10

DESIGN CRITERIA

MAX WEIGHT = 20,000 LBS (APPROX)

SNOW LOADS PER ASCE 7-10:

GROUND SNOW LOAD, P_g = 15 PSF
FLAT-ROOF SNOW LOAD, P_f = 18 PSF
SNOW EXPOSURE FACTOR, C_e = 1.0
SNOW LOAD IMPORTANCE FACTOR, I_s = 1.2
THERMAL FACTOR, C_t = 1.2

WIND LOADS PER IBC 2015 AND ASCE 7-10:

ULTIMATE DESIGN WIND SPEED, V_{ult} = 120 MPH
NOMINAL DESIGN WIND SPEED, V_{ASD} = 93 MPH
RISK CATEGORY = IV
EXPOSURE = C
INTERNAL PRESSURE COEFFICIENT, (GC_p) = \pm 0.18

SEISMIC PER ASCE 7-10:

RISK CATEGORY = IV
IMPORTANCE FACTOR, I_h = 1.5
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
SHORT PERIOD, S_s = 0.199 g
ONE SECOND PERIOD, S_1 = 0.058 g
DESIGN SPECTRAL RESPONSE ACCELERATIONS:
SHORT PERIOD, S_{DS} = 0.212 g
ONE SECOND PERIOD, S_{D1} = 0.093 g

SEISMIC DESIGN CATEGORY

SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE EXCLUDING CANTILEVERED COLUMN SYSTEMS
SEISMIC BASE SHEAR, V = 0.106 W
RESPONSE MODIFICATION FACTOR, R = 3.0
ANALYTICAL PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE, SECTION 12.8

DESIGN SOIL PARAMETERS:

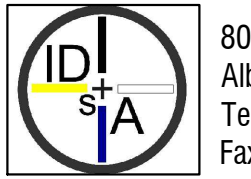
MAXIMUM ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF
COEFFICIENT OF FRICTION = 0.40*
*USED IN CONJUNCTION WITH PASSIVE PRESSURE = 0.30
EFP (ACTIVE) GRANULAR SOIL BACKFILL = 35 PCF
UNDISTURBED SUBSOIL = 30 PCF
EFP (AT-REST) GRANULAR SOIL BACKFILL = 50 PCF
UNDISTURBED SUBSOIL = 60 PCF
EFP (PASSIVE) SHALLOW FOUNDATION WALLS = 250 PCF
SHALLOW COLUMN FOOTINGS = 350 PCF

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

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SHEET TITLE

PUMP BUILDING
SLAB DETAILS

SHEET NUMBER

C-350

Sequence of

GENERAL CURB & GUTTER NOTES

- A. CURBS, GUTTERS AND CUT-OFF WALL WILL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE.
- B. FOR STANDARD AND MEDIAN C & G ADJACENT TO ASPHALT CONCRETE PAVEMENT, PROVIDE CONTRACTION JTS. 12' MAX., SPACING, 1/2" EXP. JTS. AT CURB RETURNS & AT A MAXIMUM SPACING OF 120' BETWEEN CURB RETURNS & EACH SIDE OF SEPARATELY CONSTRUCTED DRIVEWAYS. CONTRACTION JTS. SHALL BE EITHER SAWED OR TOOLED A MINIMUM OF 1" DEEP AT FINISHED FACES.
- C. FOR ALL OTHER C & G & CUT-OFF WALL PROVIDE CONTRACTION JTS. AT 10' MAX., SPACING, 1/2" EXP. JTS. AT CURB RETURNS & AT A MAXIMUM SPACING OF 100' BETWEEN CURB RETURNS & EACH SIDE OF SEPARATELY CONSTRUCTED DRIVEWAYS. CONTRACTION JTS. SHALL BE EITHER SAWED OR TOOLED A MINIMUM OF 1" DEEP AT ALL FINISHED FACES. REINFORCEMENT SHALL NOT BE USED IN CUT-OFF WALLS.
- D. FOR C & G CONSTRUCTED WITH PORTLAND CEMENT CONCRETE PAVEMENT, CONTRACTION JTS. AND EXPANSION JTS. SHALL BE THE SAME AS THE PAVEMENT JOINTS.
- E. ALL EDGES SHALL BE EDGED WITH A 3/8" RADIUS EDGING TOOL.
- F. STANDARD C & G SHALL BE USED FOR NEW CONSTRUCTION UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
- G. REMOVE & REPLACE PAVEMENT 1' WIDE ADJACENT TO LIP OF GUTTER WHEN CONSTRUCTING C & G ADJACENT TO EXISTING ASPHALT CONCRETE PAVEMENT.
- H. 1/4" ISOLATION JOINT SHALL BE PLACED BETWEEN SIDEWALK AND C & G WHEN CAST ADJACENT TO EACH OTHER.
- I. ADA = AMERICANS WITH DISABILITIES ACT.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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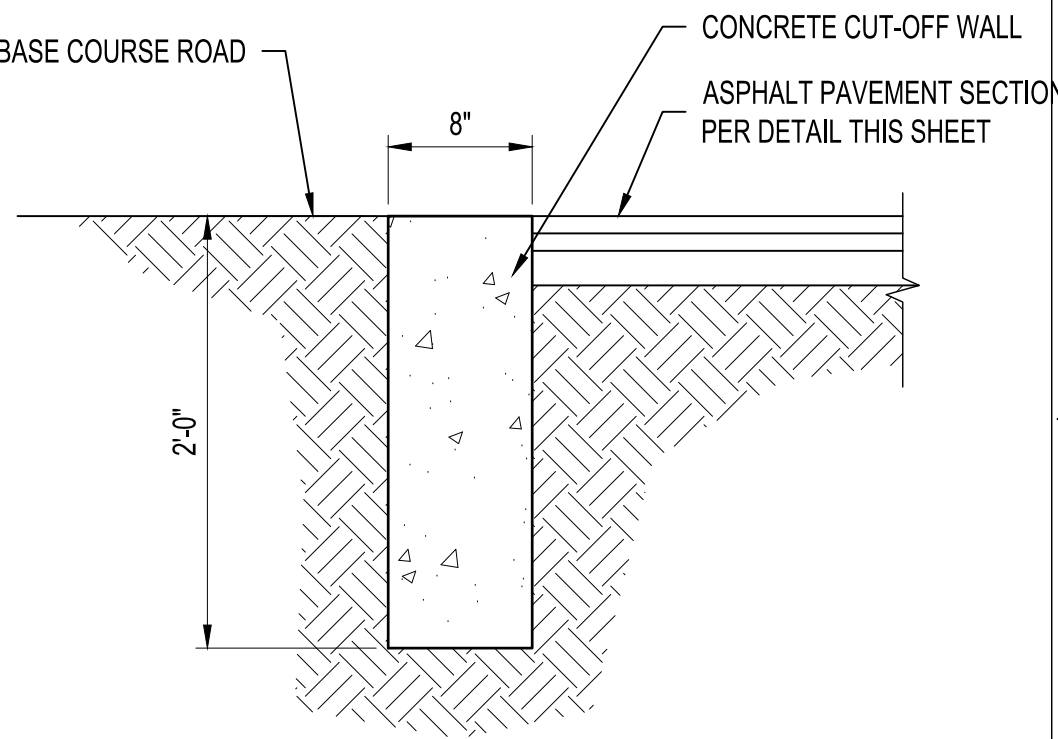
SHEET TITLE

OVERALL PAVING
PLAN

SHEET NUMBER

C-400

Sequence of

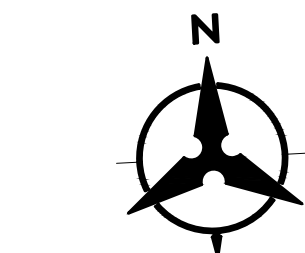


1 CONCRETE CUT-OFF WALL

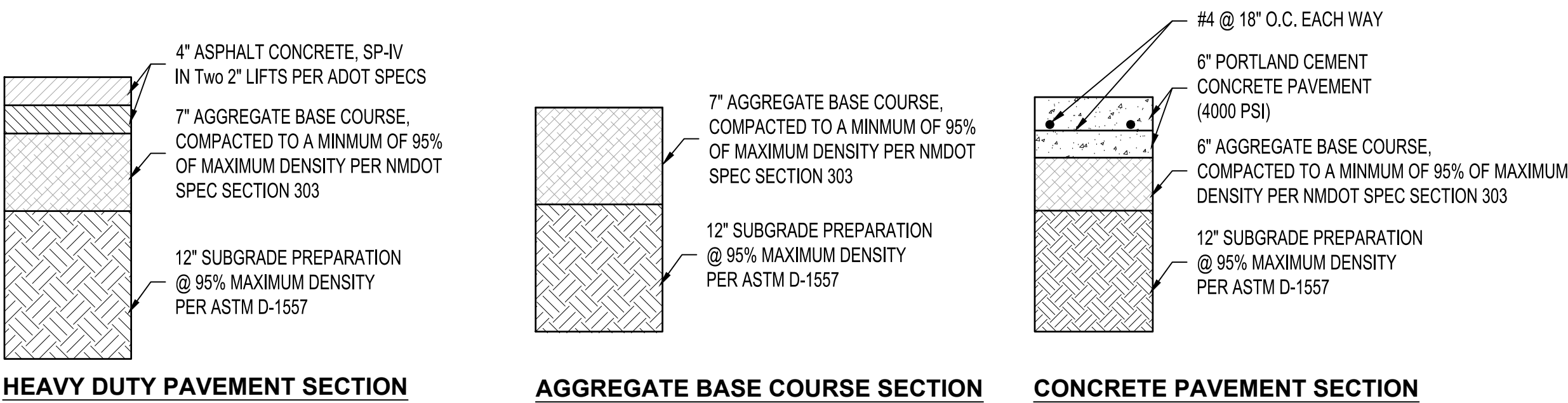
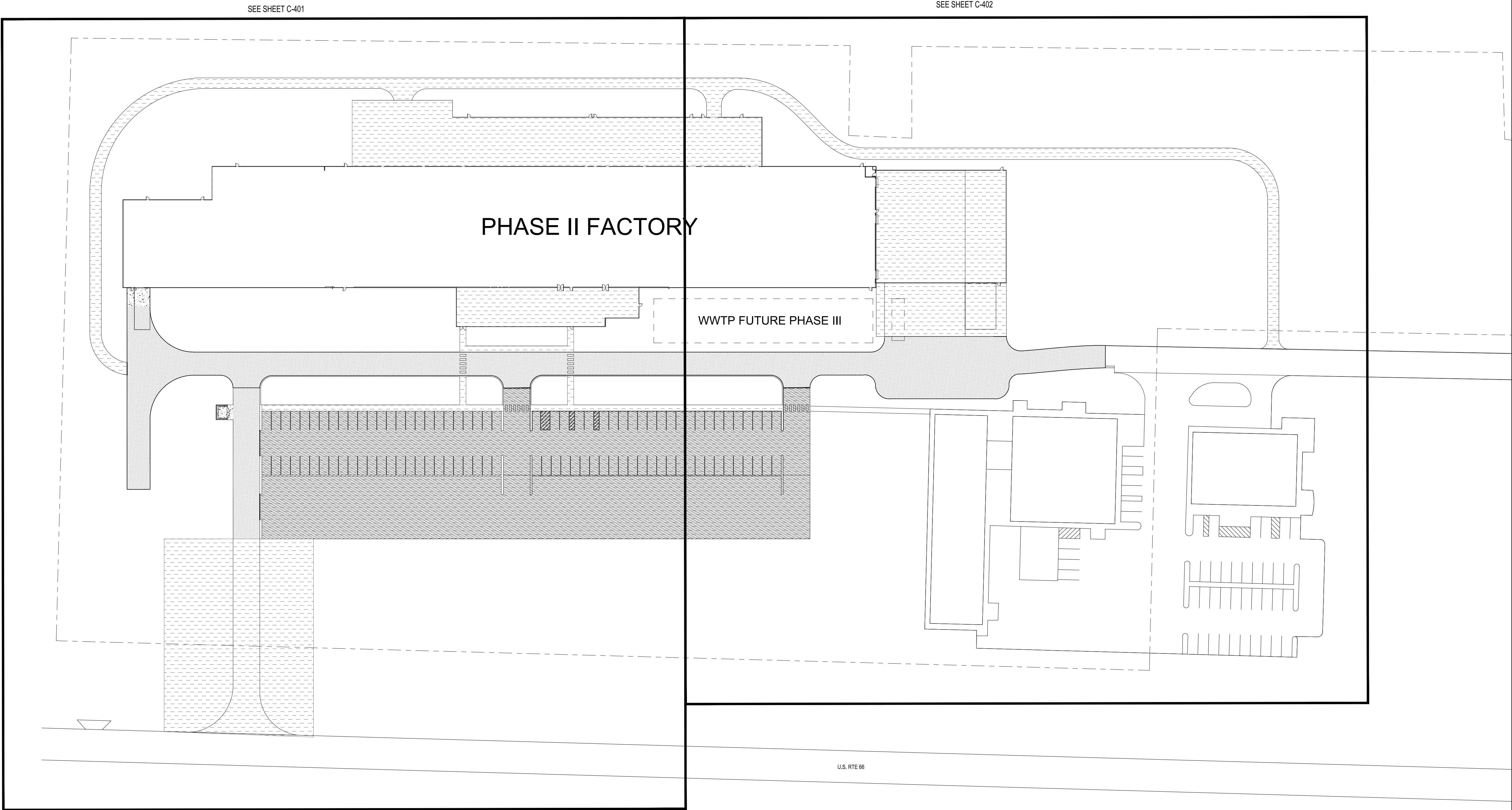
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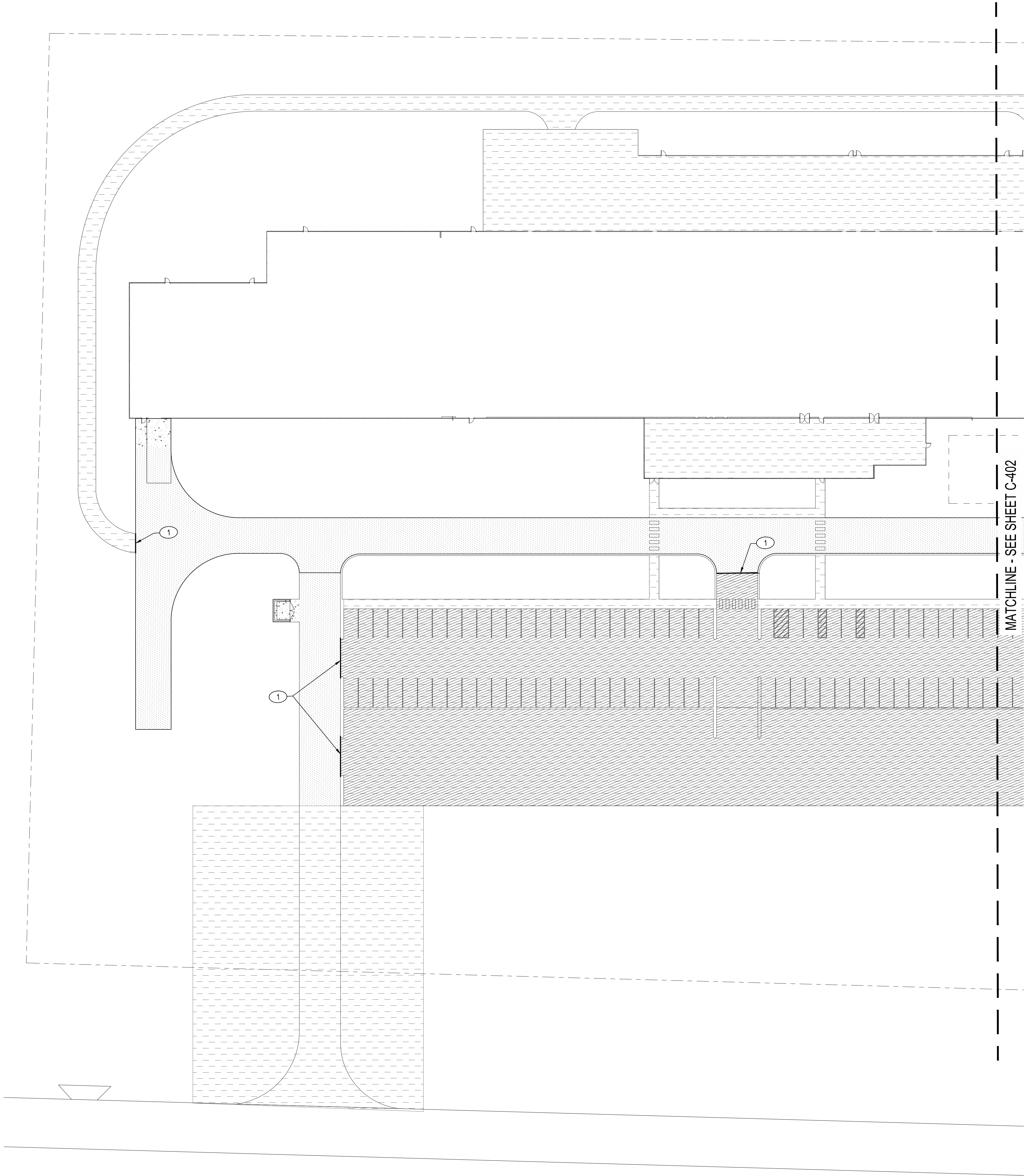
LEGEND

- AGGREGATE BASE COURSE
SEE DETAIL THIS SHEET
- HEAVY DUTY ASPHALT CONCRETE PAVEMENT
SEE DETAIL THIS SHEET
- CONCRETE PAVEMENT
SEE DETAIL THIS SHEET
- TO BE CONSTRUCTED AS PHASE III OF PROJECT



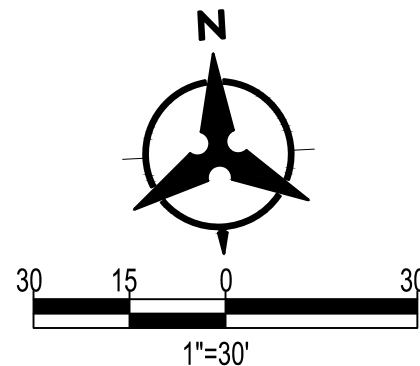
Bohannon & Huston
www.bhinc.com 800.877.5332





PAVING KEYNOTES

1. INSTALL CONCRETE CUT-OFF WALL PER DETAIL 1, SHEET C-300.



LEGEND

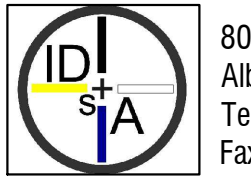
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SEE DETAIL SHEET C-300
- HEAVY DUTY ASPHALT CONCRETE PAVEMENT
SEE DETAIL SHEET C-300
- CONCRETE PAVEMENT
SEE DETAIL SHEET C-300
- TO BE CONSTRUCTED AS PHASE III OF PROJECT

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

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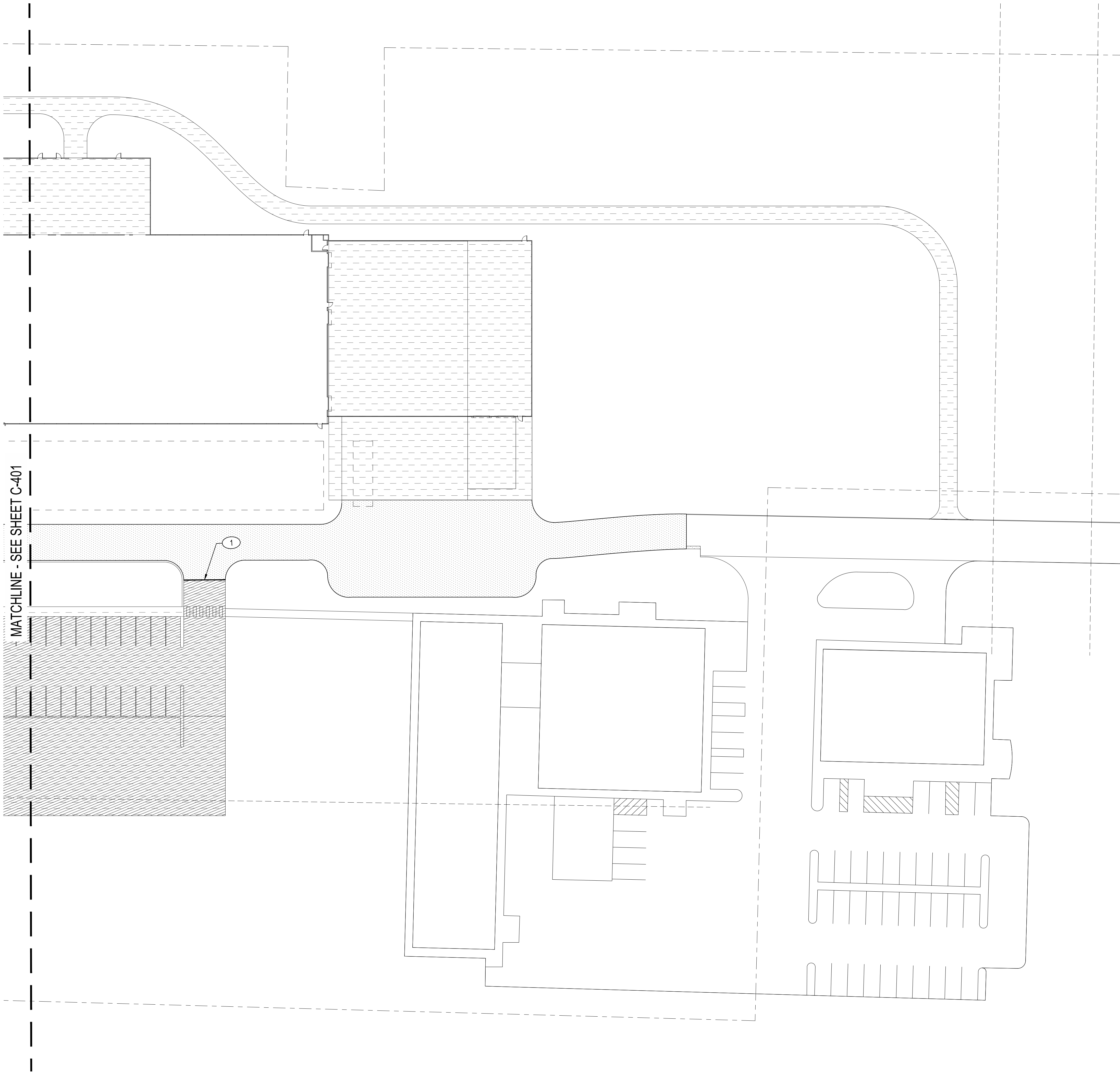
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PAVING PLAN

SHEET NUMBER

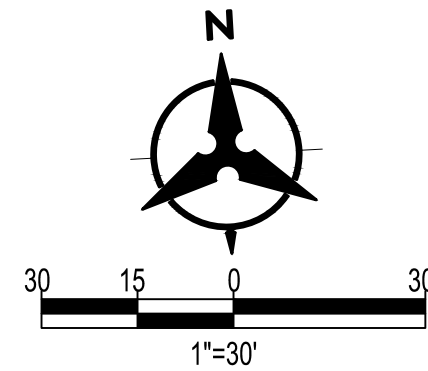
C-401

Sequence of



PAVING KEYNOTES

1. INSTALL CONCRETE CUT-OFF WALL PER DETAIL 1, SHEET C-300.



LEGEND

- Aggregate Base Course
SEE DETAIL SHEET C-300
- Heavy Duty Asphalt Concrete Pavement
SEE DETAIL SHEET C-300
- Concrete Pavement
SEE DETAIL SHEET C-300
- TO BE CONSTRUCTED AS PHASE III OF PROJECT

CHURCH ROCK PHASE II FACTORY
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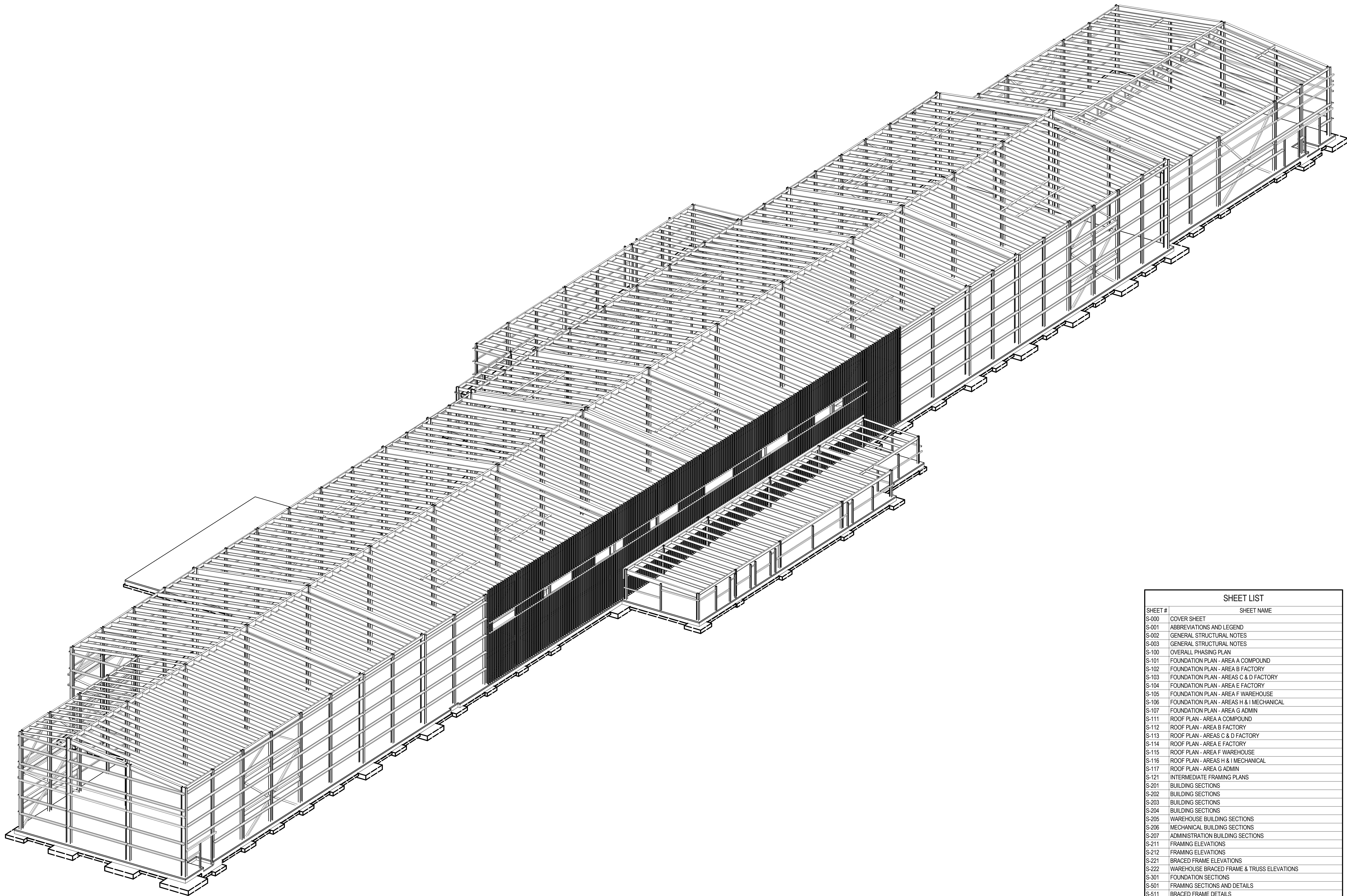
PAVING PLAN

SHEET NUMBER

C-402

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



A1 ISOMETRIC VIEW (FOR REFERENCE ONLY)
SCALE:

SHEET LIST	
SHEET #	SHEET NAME
S-000	COVER SHEET
S-001	ABBREVIATIONS AND LEGEND
S-002	GENERAL STRUCTURAL NOTES
S-003	GENERAL STRUCTURAL NOTES
S-100	OVERALL PHASING PLAN
S-101	FOUNDATION PLAN - AREA A COMPOUND
S-102	FOUNDATION PLAN - AREA B FACTORY
S-103	FOUNDATION PLAN - AREAS C & D FACTORY
S-104	FOUNDATION PLAN - AREA E FACTORY
S-105	FOUNDATION PLAN - AREA F WAREHOUSE
S-106	FOUNDATION PLAN - AREAS H & I MECHANICAL
S-107	FOUNDATION PLAN - AREA G ADMIN
S-111	ROOF PLAN - AREA A COMPOUND
S-112	ROOF PLAN - AREA B FACTORY
S-113	ROOF PLAN - AREAS C & D FACTORY
S-114	ROOF PLAN - AREA E FACTORY
S-115	ROOF PLAN - AREA F WAREHOUSE
S-116	ROOF PLAN - AREAS H & I MECHANICAL
S-117	ROOF PLAN - AREA G ADMIN
S-121	INTERMEDIATE FRAMING PLANS
S-201	BUILDING SECTIONS
S-202	BUILDING SECTIONS
S-203	BUILDING SECTIONS
S-204	BUILDING SECTIONS
S-205	WAREHOUSE BUILDING SECTIONS
S-206	MECHANICAL BUILDING SECTIONS
S-207	ADMINISTRATION BUILDING SECTIONS
S-211	FRAMING ELEVATIONS
S-212	FRAMING ELEVATIONS
S-221	BRACED FRAME ELEVATIONS
S-222	WAREHOUSE BRACED FRAME & TRUSS ELEVATIONS
S-301	FOUNDATION SECTIONS
S-601	FRAMING SECTIONS AND DETAILS
S-611	BRACED FRAME DETAILS
S-601	SCHEDULES
S-701	TYPICAL CONCRETE DETAILS
S-711	STEEL CONNECTION DETAILS
S-712	TYPICAL FRAMING DETAILS
S-731	TYPICAL COLD-FORMED DETAILS

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
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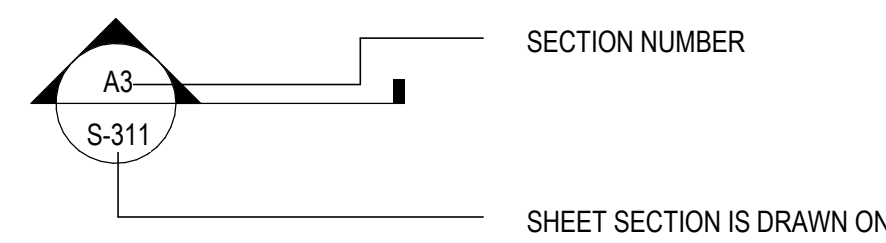
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S-000

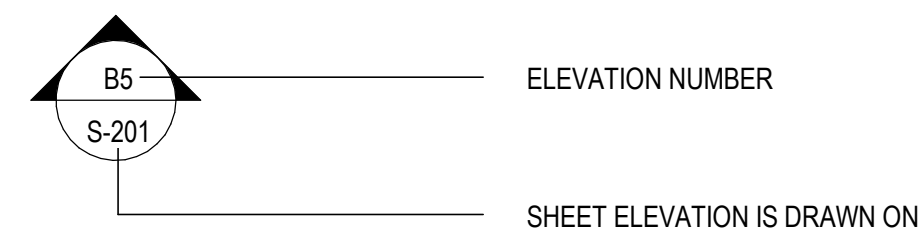
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STRUCTURAL GRAPHIC SYMBOLS

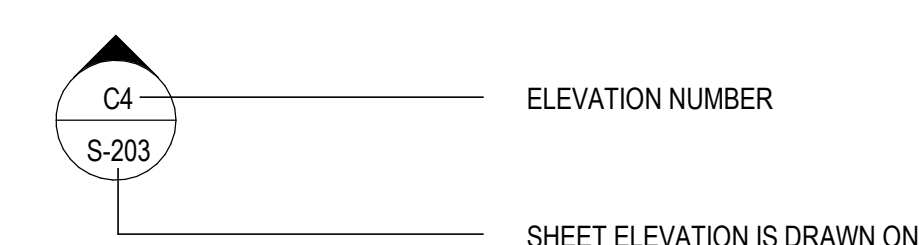
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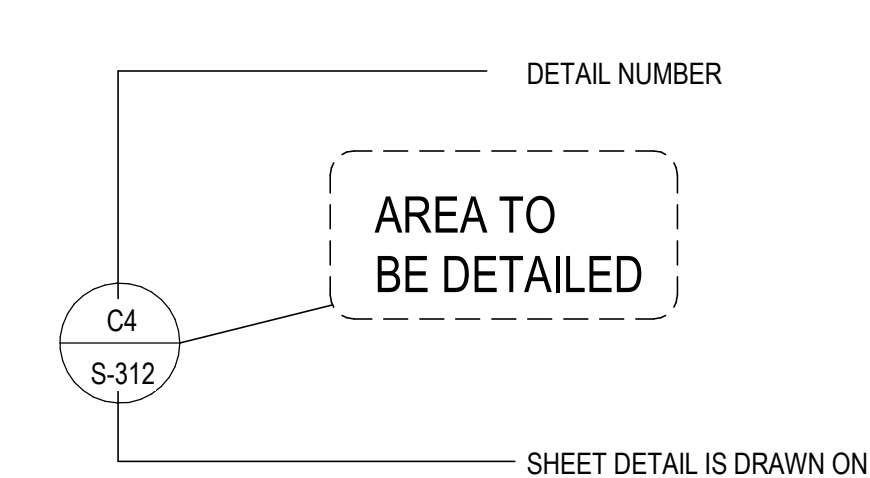
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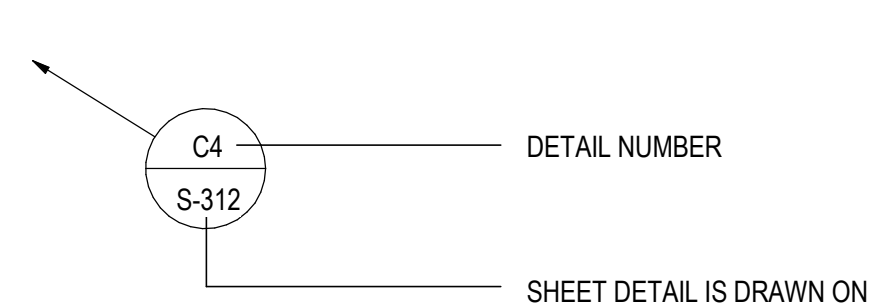
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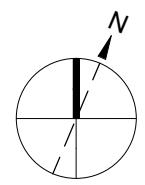
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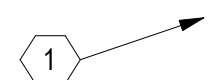
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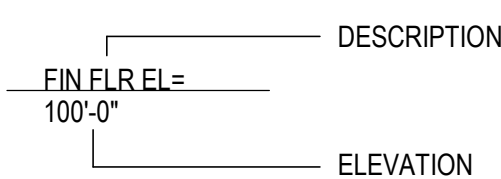
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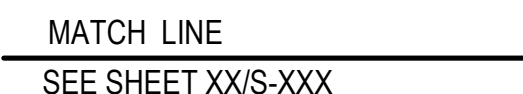
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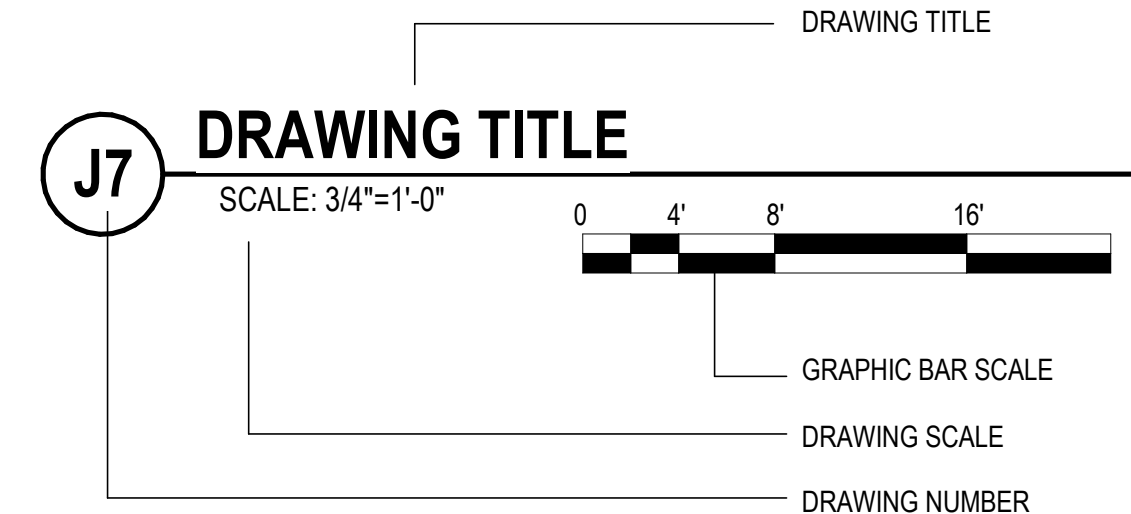
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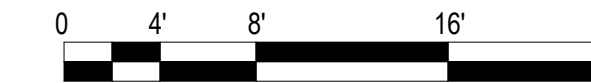
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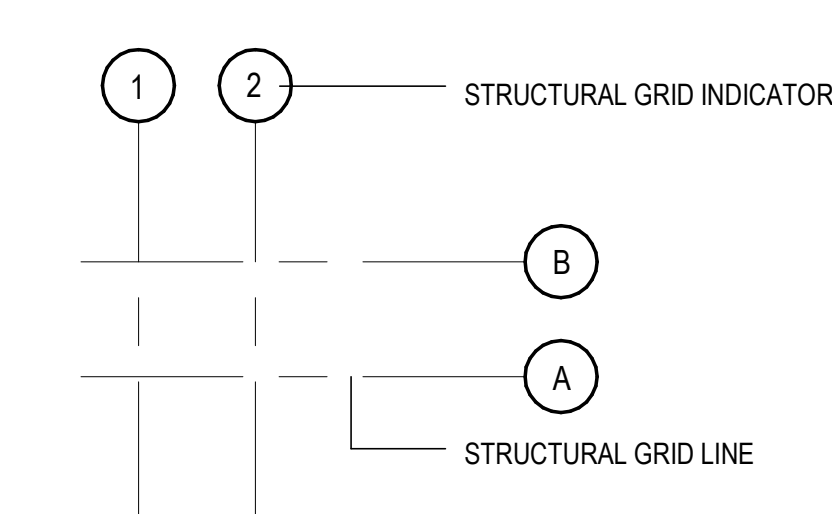
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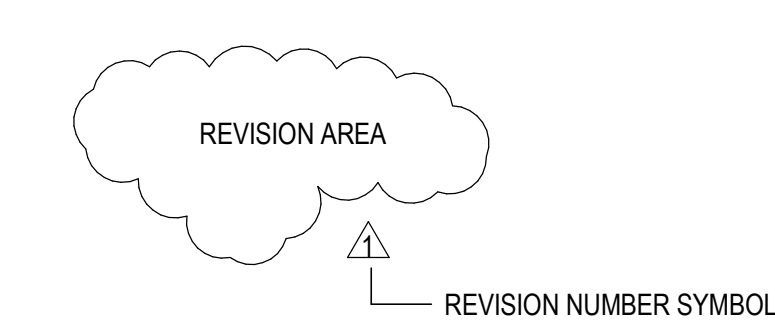
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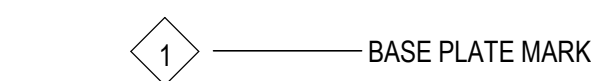
STRUCTURAL GRID REFERENCE SYMBOL



REVISION INDICATOR SYMBOL



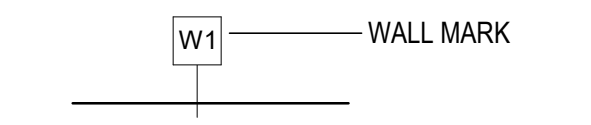
BASE PLATE MARK SYMBOL



FOOTING MARK SYMBOL



WALL MARK SYMBOL



MOMENT CONNECTION SYMBOL



ABBREVIATIONS		ABBREVIATIONS		ABBREVIATIONS	
A/E	ARCHITECT/ENGINEER	EQ	EQUAL	OPT	OPTIONAL
AB	ANCHOR BOLT	EQUIP	EQUIPMENT	OR	OUTSIDE RADIUS
ABAN	ABANDON	EQUIV	EQUIVALENT	PAR	PARALLEL, PARAPET
ABBRV	ABBREVIATION	ESCAL	ESCALATOR	PARTY	PARTIAL
AC	ASPHALTIC CONCRETE	ESMT	EASEMENT	PC	PIECE, PORTLAND CEMENT
ACI	AMERICAN CONCRETE INSTITUTE	EST	ESTIMATE	PCC	PRECAST CONCRETE
ACP	ASPHALTIC CONCRETE PAVING	ETC	ET CETERA	PCF	POUNDS PER CUBIC FOOT
ACROSS	ACROSS	EW	EACH WAY	PCI	PRECAST/PRESTRESSED CONCRETE
ACST	ACOUSTIC	EX	EXAMPLE		INSTITUTE
AD	AREA DRAIN	EXC	EXCAVATE	PED	PEDESTAL
ADA	AMERICANS WITH DISABILITIES ACT	EXCL	EXCLUDE	PEN	PENETRATE
ADDL	ADDITIONAL	EXIST	EXISTING	PERIM	PERIMETER
ADDM	ADDITIONAL	EXP	EXPANSION	PERP	PERPENDICULAR
ADJ	ADJACENT/ADJOINING	EXT	EXTENSION	PH	PHASE
ADMIN	ADMINISTRATION	F/F	FACE TO FACE	PIL	PILASTER
AFF	ABOVE FINISHED FLOOR	FAB	FABRIC	PL	PLATE
AFG	ABOVE FINISHED GRADE	FACIL	FACILITY	PLAT	PLATFORM
AFS	ABOVE FINISHED SLAB	FB	FLAT BAR	PLBG	PLUMBING
AGGR	AGGREGATE	FD	FLOOR DRAIN	PLF	POUNDS PER LINEAR FOOT
AHR	ANCHOR	FDTN	FOUNDATION	PLM	PARALLAM
AIA	AMERICAN INSTITUTE OF ARCHITECTS	FF	FAR FACE	PLYWD	PLYWOOD
AISC	AMERICAN INSTITUTE OF STEEL	FF EL	FINISH FLOOR ELEVATION	POS	POSITION
CONSTRUCTION		FIN GR	FINISH GRADE	PP	PANEL POINT
AISI	AMERICAN IRON AND STEEL INSTITUTE	FH	FLAT HEAD	PRCST	PRECAST
AITC	AMERICAN INSTITUTE OF TIMBER	FIN	FINISH	PREFAB	PREFABRICATE
		FIN FLR	FINISH FLOOR	PRELIM	PRELIMINARY
ALNMT	ALIGNMENT	FLG	FLANGE	PREV	PREVIOUS
ALT	ALTERNATE, ALTERNATIVE	FLR	FLOOR	PSF	POUNDS PER SQUARE FOOT
ALUM	ALUMINUM	FLR SK	FLOOR SINK	PSI	POUNDS PER SQUARE INCH
AMT	AMOUNT	FOC	FACE OF CONCRETE	PT	POST-TENSIONED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FOF	FACE OF FINISH	PT CONC	POST-TENSIONED CONCRETE
APA	AMERICAN PLYWOOD ASSOCIATION	FOM	FACE OF MASONRY	PTN	PARTITION
APPD	APPROVED	FTLB	FACE OF STUD	PVG	PAVING
APPROX	APPROXIMATE	FOS	FACE OF STUD	QTY	QUANTITY
APPX	APPENDIX	FOW	FACE OF WALL	QUAD	QUADRANT
AR	AS REQUIRED	FR	FRAME	R	RADIUS, RISER
ARCH	ARCHITECT	FRMG	FRAMING	RC	REINFORCED CONCRETE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	FS	FAR SIDE	RD	ROAD, ROOF DRAIN
ASPH	ASPHALT	FSTNR	FASTENER	REC	RECESSED
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	FT	FOOT / FEET	REF	REFERENCE
ASSN	ASSOCIATION	FTLB	FOOT/POUND	REINF	REINFORCE/REINFORCEMENT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FTLBF	FOOT/POUND FORCE	REPL	REPLACE
		FTG	FOOTING	REQ	REQUIRED
ATCH	ATTACHMENT	FUT	FUTURE	REQD	REQUIRED
ATTN	ATTENTION	G	GIRDER	REV	REVISION
AWIS	AMERICAN WELDING SOCIETY	GA	GAGE	RGD INS	RIGID INSULATION
ARCH	ARCHITECT	GALV	GALVANIZED	R	REQUEST FOR INFORMATION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	GALV STL	GALVANIZED STEEL	RND	ROUND
ASPH	ASPHALT	GR BM	GRADE BEAM	RO	ROUGH OPENING
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	GC	GENERAL CONTRACTOR	RT	RIGHT
ASSN	ASSOCIATION	GEN	GENERAL	RVL	REVEAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GLU LAM	GLUED LAMINATED WOOD	S	SOUTH
		GLZ	GLAZING	SCHEM	SCHEMATIC
ATCH	ATTACHMENT	GOVT	GOVERNMENT	SCHED	SCHEDULE
ATTN	ATTENTION	GRTG	GRATING	SD	SHOP DRAWINGS
AWIS	AMERICAN WELDING SOCIETY	GT	GROUT	SDI	STEEL DECK INSTITUTE
ARCH	ARCHITECT	H	HIGH	SADDL	SADDLE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	HAS	HEADED ANCHOR STUD	SE	STRUCTURAL ENGINEER
ASPH	ASPHALT	HC	HOLLOW-CORE	SECT	SECTION
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	HCP	HANDICAPPED	SF	SQUARE FEET (FOOT)
ASSN	ASSOCIATION	HD	HEAVY DUTY	SHT	SHEET, SHAFT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HGR	HANGER	SHTHG	SHEATHING
		HLDN	HOLDDOWN	SIM	SIMILAR
ATCH	ATTACHMENT	HORIZ	HORIZONTAL	SUI	STEEL JOIST INSTITUTE
ATTN	ATTENTION	HS	HIGH STRENGTH	SLNT	SEALANT
AWIS	AMERICAN WELDING SOCIETY	HSKPG	HOUSEKEEPING	SM	SMOOTH
ARCH	ARCHITECT	HSS	HOLLOW STRUCTURAL SECTIONS	SP	SUMP PIT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	HST	HOIST	SPA	SPACE/SPACES
ASPH	ASPHALT	HT	HEIGHT	SPEC	SPECIFICATION
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	IBC	INTERNATIONAL BUILDING CODE	SPRT	SUPPORT
ASSN	ASSOCIATION	IDIA	INSIDE DIAMETER	SO	SQUARE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IF	INSIDE FACE	SQ IN	SQUARE INCH
		IFS	INSIDE FACE OF STUD	SQ YD	SQUARE YARD
ATCH	ATTACHMENT	IN	INCH	SSPC	STRUCTURAL STEEL PAINTING COUNCIL
ATTN	ATTENTION	INCL	INCLUDED	ST	STAIRS
AWIS	AMERICAN WELDING SOCIETY	INFO	INFORMATION	STAG	STAGGERED
ARCH	ARCHITECT	IN-LB	INCH-POUND	STD	STANDARD
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	IN-LBF	INCH-POUND FORCE	STIF	STIFFENER
ASPH	ASPHALT	INSTL	INSTALL	STR	STIRRUP
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	INSUL	INSULATION	STAG	STAGGERED
ASSN	ASSOCIATION	INT	INTERIOR	STD	STANDARD
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IR	INSIDE RADIUS	STIF	STIFFENER
		k	KIP	STIR	STIRRUP
ATCH	ATTACHMENT	K	THOUSAND	STL	STEEL
ATTN	ATTENTION	KCB	KNEE BRACE	STL LNTL	STEEL LINTEL
AWIS	AMERICAN WELDING SOCIETY	KCU	KEYED CONTROL JOINT	STL	1ST STEEL JOIST
ARCH	ARCHITECT	KIP	THOUSAND POUNDS	STL PL	STEEL PLATE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	KIP FT	THOUSAND FOOT/POUNDS	STL RF DK	STEEL ROOF DECK
ASPH	ASPHALT	KLF	KIPS PER LINEAL FOOT	STR	STRINGERS
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	KO	KNOCK OUT	STRUCT	STRUCTURAL
ASSN	ASSOCIATION	KOP	KNOCK OUT PANEL	SUB	SUBSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	KSF	KIPS PER SQUARE FOOT	SUF	SUFFICIENT
		KSI	KIPS PER SQUARE INCH	SUP	SUPPLEMENTARY
ATCH	ATTACHMENT	L	ANGLE	SUPPL	SUPPLEMENT
ATTN	ATTENTION	LAM	LAMINATE	SYM	SYMBOL
AWIS	AMERICAN WELDING SOCIETY	LATL	LATERAL	SYMM	SYMMETRICAL
ARCH	ARCHITECT	LBF	POUND-FORCE	SYS	SYSTEM
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	LBR	LUMBER	T	TREAD
ASPH	ASPHALT	LBS	POUND	T&B	TOP AND BOTTOM
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	LD BRG	LOAD BEARING	T&G	TONGUE AND GROOVE
ASSN	ASSOCIATION	LF	LINEAR FEET (FOOT)	TAN	TANGENT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LIN	LINEAR	TB	THRU BOLT
		LL	LIVE LOAD	TEMP	TEMPORARY
ATCH	ATTACHMENT	LLBB	LONG LEG BACK TO BACK	THD	THREAD
ATTN	ATTENTION	LLH	LONG LEG HORIZONTAL	THK	THICKNESS
AWIS	AMERICAN WELDING SOCIETY	LLV	LONG LEG VERTICAL	THRU	THROUGH
ARCH	ARCHITECT	LONG	LONGITUDINAL	TJI	TRUSS JOIST INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	LT GA	LIGHT GAGE	TO	TOP OF
ASPH	ASPHALT	LT WT	LIGHT WEIGHT	TOB	TOP OF BEAM
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	LVR	LOUVER	TOC	TOP OF CONCRETE
ASSN	ASSOCIATION	LWC	LIGHTWEIGHT CONCRETE	TOC FTG	TOP OF CONCRETE FOOTING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	M	MOMENT	TOC WALL	TOP OF CONCRETE WALL
		MAINT	MAINTENANCE	TOF	TOP OF FOOTING
ATCH	ATTACHMENT	MATL	MATERIAL	TOG	TOP OF GRATE
ATTN	ATTENTION	MAX	MAXIMUM	TOJ	TOP OF JOIST
AWIS	AMERICAN WELDING SOCIETY	MB	MACHINE BOLT	TOL	TOLERANCE
ARCH	ARCHITECT	MC	MOMENT CONNECTION	TOM	TOP OF MASONRY
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MCJ	MASONRY CONTROL JOINT	TOP	TOP OF PARAPET
ASPH	ASPHALT	MD	METAL DECK	TOS	TOP OF SLAB
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	ME	MECHANICAL ENGINEER	TOS	TOP OF STEEL
ASSN	ASSOCIATION	MECH	MECHANICAL	TOW	TOP OF WALL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MEZZ	MEZZANINE	TRANS	TRANSVERSE
		MFR	MANUFACTURER	TRNBKL	TURNBUCKLE
ATCH	ATTACHMENT	MID	MIDDLE	TYP	TYPICAL
ATTN	ATTENTION	MIN	MINIMUM	UBC	UNIFORM BUILDING CODE
AWIS	AMERICAN WELDING SOCIETY	MISC	MISCELLANEOUS	UNO	UNLESS NOTED OTHERWISE
ARCH	ARCHITECT	ML	MICRO-LAMINATED	VAR	VARIES
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	ML	MONOLITHIC	VERT	VERTICAL
ASPH	ASPHALT	MO	MASONRY OPENING	VERIFY	VERIFY IN FIELD
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	MS	MACHINE SCREW	VNER	VENEER
ASSN	ASSOCIATION	MSL	MEAN SEA LEVEL	VR	VAPOR RETARDER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MTL	METAL	VREFY	VERIFY
		N	NORTH	W	WEST, WIDE
ATCH	ATTACHMENT	NA	NOT APPLICABLE	W/	WITH
ATTN	ATTENTION	NF	NEAR FACE	W/O	WITHOUT
AWIS	AMERICAN WELDING SOCIETY	NIC	NOT IN CONTRACT	WBL	WOOD BLOCKING
ARCH	ARCHITECT	NM	NEW MEXICO	WD	WOOD
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	NO	NUMBER	WF	WIDE FLANGE
ASPH	ASPHALT	NOM	NOMINAL	WF BM	WIDE FLANGE BEAM
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	NS	NEAR SIDE	WL	WIND LOAD
ASSN	ASSOCIATION	NTS	NOT TO SCALE	WLD	WELDED
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	OIO	OUT TO OUT	WM	WIRE MESH
		OA	OVERALL	WP	WATERPROOFING
ATCH	ATTACHMENT	OC	ON CENTER	WSCT	WAINSCOT
ATTN	ATTENTION	OD	OUTSIDE DIAMETER	WT	WEIGHT
AWIS	AMERICAN WELDING SOCIETY	OF	OUTSIDE FACE	WWF	WELDED WIRE FABRIC
ARCH	ARCHITECT	OFB	OUTSIDE FACE OF STUD	WWW	WELDED WIRE MESH
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	OPH	OPPOSITE HAND	X BRACE	CROSS BRACING
ASPH	ASPHALT	OPNG	OPENING	YHD	DOUBLE EXTRA HEAVY
ASI	ARCHITECTS SUPPLEMENTAL INSTRUCTIONS	OPP	OPPOSITE	YARD	YARD

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

OWNER:
NAVAJO NATION DEPARTMENT OF ECONOMIC DEVELOPMENT

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CONSULTANT STAMP

NOT FOR
CONSTRUCTION

MARK	DATE	DESCRIPTION
	FEBRUARY 18, 2022	

PROJECT NUMBER: 123-117
DRAWING FILE:
DRAWN BY: O. POTER
CHECKED BY: S. VASQUEZ

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SHEET TITLE

ABBREVIATIONS
AND LEGEND

SHEET NUMBER

S-001

Sequence of

E

D

C

B

A

GENERAL FOUNDATION NOTES

FOUNDATION NOTES

GENERAL:

THE FOUNDATION NOTES INCLUDED HEREIN ARE A SUMMARY OF THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT. THESE NOTES ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY.

IF THERE ARE DISCREPANCIES BETWEEN THE FOUNDATION NOTES AND THE PROJECT GEOTECHNICAL REPORT, THE PROJECT GEOTECHNICAL REPORT SHALL GOVERN.

A SUBSURFACE GEOTECHNICAL INVESTIGATION HAS BEEN MADE BY GEOMAT PROJECT 212-3660.

A REPORT OF THAT INVESTIGATION DATED APRIL 7, 2021 IS AVAILABLE FOR VIEWING IN THE PROJECT MANUAL.

THE FOUNDATION SYSTEM FOR THIS PROJECT IS SPREAD FOOTINGS OVER ENGINEERED FILL.

THE SLAB-ON-GRADE FOR THIS PROJECT WAS NOT DESIGNED AS A STRUCTURAL DIAPHRAGM. SAW CUTTING OF THE SLAB IS PROHIBITED.

ADDITIONAL INFORMATION CONCERNING THE SPECIFIC SITE SOIL CONDITIONS TO BE ENCOUNTERED ARE IN THE PROJECT GEOTECHNICAL REPORT AND SHALL BE REVIEWED AND FULLY UNDERSTOOD BY THE CONTRACTOR.

IF THERE ARE ANY QUESTIONS REGARDING THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT, THE CONTRACTOR SHALL ISSUE RFIs (REQUESTS FOR INFORMATION) TO THE ARCHITECT FOR CLARIFICATION. EARTHWORK SHALL NOT PROCEED UNTIL THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT ARE FULLY UNDERSTOOD BY THE CONTRACTOR.

FIELD OBSERVATION AND TESTS:

THE OWNER SHALL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK. THE GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK.

TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING MINIMUM RATES. THE ON-SITE GEOTECHNICAL ENGINEER SHALL DETERMINE THE ACTUAL TESTING RATES:

ONE FIELD DENSITY TEST PER 2500 SQUARE FEET OF COMPACTED SUBGRADE, PRIOR TO PLACING STRUCTURAL FILL OR SLAB-ON-GRADE, WITH A MINIMUM OF 3 TESTS.

ONE FIELD DENSITY TEST PER 2500 SQUARE FEET OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS THE GREATER FREQUENCY.

ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY THE SIEVE ANALYSIS AND THE PLASTICITY INDEX.

THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.

CLEARING AND GRUBBING:

REMOVE ALL BRUSH, RUBBISH, GRASS, AND GRASS ROOTS FROM THE CONSTRUCTION AREA.

REMOVE STUMPS, MATTED ROOTS AND ROCKS LARGER THAN 2 INCHES IN DIAMETER WITHIN 6 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/OR FOOTINGS ARE TO BE CONSTRUCTED.

REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE USED AS FILL MATERIAL, BUT MAY BE STOCKPILED AND LATER USED IN THE TOP 6 INCHES OF FILL OUTSIDE THE BUILDING PAD.

SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:

A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFIRM COMPLETE EXCAVATION OF ANY UNCONTROLLED FILL.

OVEREXCAVATE ALL SOILS UNDERLYING FOOTINGS AND FLOOR SLAB AND ALL UNCONTROLLED FILL TO A MINIMUM DEPTH OF 3 FEET.

OVEREXCAVATE ALL SOILS UNDERLYING SITE RETAINING WALL FOOTINGS TO A MINIMUM DEPTH OF 3 FEET.

SCARIFY ALL EXPOSED SUBGRADE SOILS TO A DEPTH OF 8 INCHES, MOISTEN TO OPTIMUM MOISTURE CONTENT (+/- 2%) AND COMPACT TO THE DENSITY SPECIFIED HEREINAFTER.

PLACE ALL STRUCTURAL FILL IN APPROXIMATELY HORIZONTAL LAYERS NOT GREATER THAN 10 INCHES IN LOOSE THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT (+/- 2%) AND COMPACT TO DENSITY SPECIFIED HEREINAFTER.

ALL EARTHWORK FOR THE BUILDING PAD SHALL EXTEND A MINIMUM OF 2.5 FEET BEYOND THE PERIMETER FOOTINGS.

STRUCTURAL FILL REQUIREMENTS:

GRADATION (ASTM D422):

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3"	100
4"	50-100
NO. 200	50 Max

PLASTICITY INDEX (ASTM D4318): 12 MAXIMUM

MATERIAL LARGER THAN 6 INCHES SHALL NOT BE PLACED IN THE STRUCTURAL FILL, AND MATERIAL LARGER THAN 4 INCHES SHALL NOT BE PLACED WITHIN TWELVE INCHES OF THE BEARING SURFACES OF SLABS OR FOUNDATIONS.

NO BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE MATERIAL SHALL BE PLACED IN THE STRUCTURAL FILL. MATERIAL SHALL BE PLACED IN SUCH A MANNER AS TO RESULT IN A UNIFORMLY COMPACTED FILL.

BASED ON THE REQUIREMENTS FOR THE STRUCTURAL FILL AND THE DESCRIPTION OF THE EXISTING SITE SOILS IN THE PROJECT GEOTECHNICAL REPORT, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MOST APPROPRIATE METHOD FOR PROVIDING THE REQUIRED STRUCTURAL FILL, DEPENDING ON THE SITE CONDITIONS. APPROPRIATE METHODS COULD INCLUDE REBLENDED OF THE EXISTING SITE SOILS, MIXING THE EXISTING SITE SOILS WITH IMPORTED FILL, OR REMOVING THE EXISTING SITE SOILS ENTIRELY AND REPLACING WITH IMPORTED FILL.

COMPACTION REQUIREMENTS:

IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR. SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE MAXIMUM DRY DENSITY AT +/- 2% OPTIMUM MOISTURE CONTENT:

MINIMUM MATERIAL	PERCENT COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
SUBBASE FOR SLAB SUPPORT	95
SUBGRADE BELOW STRUCTURAL FILL	95
MISCELLANEOUS BACKFILL	90

SITE RETAINING WALL DESIGN CRITERIA:

LOADING CONDITION	EQUIVALENT FLUID PRESSURE
ACTIVE EARTH PRESSURE	
GRANULAR SOIL BACKFILL	35 PCF
UNDISTURBED SUBSOIL	30 PCF
PASSIVE EARTH PRESSURE	
SHALLOW FOUNDATION WALLS	250 PCF
SHALLOW COLUMN FOOTINGS	350 PCF
EARTH PRESSURE AT REST	
GRANULAR SOIL BACKFILL	50 PCF
UNDISTURBED SUBSOIL	60 PCF
SOIL FRICTION FACTOR	0.40
SOIL BEARING CAPACITY	2500 PSF

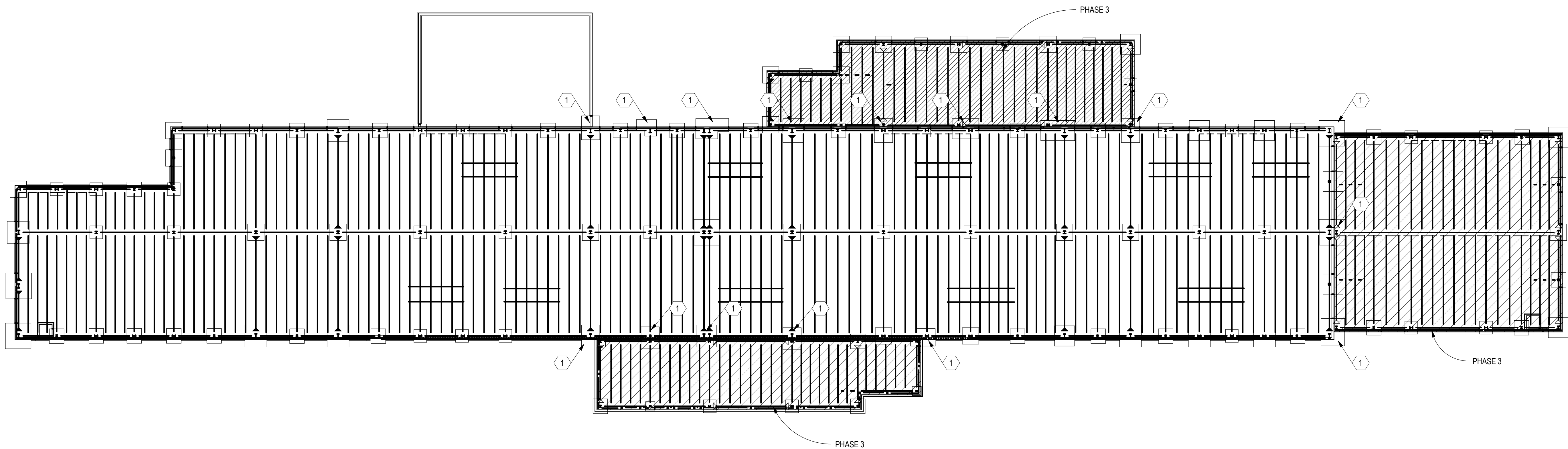
GENERAL FOUNDATION NOTES	
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GENERAL STRUCTURAL NOTES	
CODES AND MANUALS:	
IBC-15 INTERNATIONAL BUILDING CODE 2015 ASCE/SEI 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES AISC 360-10 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION SDI DIAPHRAGM DESIGN MANUAL, 3RD EDITION ANSI/SOI NC1.0-06 STANDARD FOR NONCOMPOSITE STEEL FLOOR DECK ANSI/SOI RD1.0-06 STANDARD FOR STEEL ROOF DECK AISI S100-12 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS AISI S200-12 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING – GENERAL PROVISIONS ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AWS D1.1-10 STRUCTURAL WELDING CODE	
DESIGN CRITERIA:	
VERTICAL:	
ROOF LIVE LOAD: LR = 20'R11'R2	20 PSF
REDUCTION FACTOR BASED ON TRIB AREA	R1=1.0
REDUCTION FACTOR BASED ON ROOF SLOPE	R2=1.0
SNOW LOAD	
GROUND SNOW LOAD	PG=13 PSF
FLAT ROOF SNOW LOAD**	PF=8.1 PSF
SNOW EXPOSURE FACTOR	CE=1.0
SNOW LOAD IMPORTANCE FACTOR	IS=1.0
THERMAL FACTOR	CT=1.0
**INCLUDES 5 PSF RAIN ON SNOW SURCHARGE LOAD	
HORIZONTAL:	
WIND	ULTIMATE DESIGN WIND SPEED 120 MPH
RISK CATEGORY	III
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	GCP1 = 0.75
SEISMIC	
SEISMIC IMPORTANCE FACTOR	IE = 1.25
INDUSTRIAL BUILDING	IE = 1.00
ADMINISTRATION BUILDING	IE = 1.00
WAREHOUSE BUILDING	IE = 1.00
MECHANICAL BUILDING	IE = 1.50
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
SHORT PERIOD	SS=0.158G
1 SECOND PERIOD	S1=0.054G
SITE CLASS	D
SPECTRAL RESPONSE COEFFICIENTS	
SHORT PERIOD	SDS=0.169G
1 SECOND PERIOD	SD1=0.086G
SEISMIC DESIGN CATEGORY	
INDUSTRIAL BUILDING	B
ADMINISTRATION BUILDING	B
WAREHOUSE BUILDING	B
MECHANICAL BUILDING	C
BASIC SEISMIC FORCE RESISTING SYSTEM:	
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS	
SEISMIC RESPONSE COEFFICIENT	CS=0.084
RESPONSE MODIFICATION FACTOR	R = 3
DESIGN BASE SHEAR	V = 0.084W
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE	
ALLOWABLE SOIL BEARING PRESSURE = 4000 PSF	
FROST DEPTH = 30 INCHES	
GENERAL:	
STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO THE SHOP DRAWINGS AND FIELD WORK.	
COORDINATE DIMENSIONS OF ALL OPENINGS, DEPRESSIONS, BLOCKOUTS, ETC. WITH ARCHITECTURAL DRAWINGS. DRAWINGS FROM OTHER DISCIPLINES, PROJECT SHOP DRAWINGS, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL. THE STRUCTURAL DRAWINGS ONLY REPRESENT A PORTION OF THE REQUIREMENTS FOR THE PROJECT.	
SEE ARCHITECTURAL PLANS FOR INTERIOR NON-BEARING PARTITION WALLS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/360 FOR FLOOR FRAMING AND SPAN/240 FOR ROOF FRAMING.	
CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.	
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.	
SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.	
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.	
TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.	
NOTCHING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.	
THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF FOUNDATIONS UNDER MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED. NO CONCRETE PADS SHALL BE LOCATED ON ROOF UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.	
BACKFILL SHALL NOT BE PLACED BEHIND RETAINING WALLS UNTIL CONCRETE HAS ATTAINED 100 PERCENT OF DESIGN STRENGTH.	
BACKFILL SHALL NOT BE PLACED BEHIND BASEMENT WALLS UNTIL THE CONCRETE HAS ATTAINED 100 PERCENT OF DESIGN STRENGTH AND THE ELEVATED FLOOR PROVIDING LATERAL SUPPORT AT THE TOP OF THE WALL IS COMPLETELY CONSTRUCTED. OR TEMPORARY BRACING/SHORING OF THE WALL IS PROVIDED. DESIGN OF ANY TEMPORARY WALL BRACING/SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.	
REMOVAL OF FORMS AND SHORING SHALL BE IN ACCORDANCE WITH ACI 347. WHERE CONCRETE MUST SUPPORT SUPERIMPOSED LOADS PRIOR TO ATTAINING THE SPECIFIED DESIGN STRENGTH, RE-SHORE CONCRETE IN ACCORDANCE WITH ACI 347. RESHORING SHALL NOT BE REMOVED SOONER THAN 28 DAYS FROM THE DATE OF POUR OR UNTIL CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH.	
THE CONTRACTOR SHALL SUBMIT FOR PRIOR APPROVAL THE END OF POUR LOCATIONS FOR CONCRETE GRADE BEAMS, CONCRETE COLUMNS, AND CONCRETE BEAMS.	
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE STANDARDS SET FORTH BY OSHA, INCLUDING THE FOLLOWING REQUIREMENTS FROM STANDARDS - 29 CFR, SECTION 1926, SUBPART R:	
A. THE STEEL ERECTION CONTRACTOR SHALL NOT ERECT STEEL UNLESS THEY HAVE RECEIVED WRITTEN NOTIFICATION FROM THE CONTRACTOR THAT THE CONCRETE IN THE FOOTINGS, PIERS AND WALLS OR THE MORTAR IN THE MASONRY PIERS AND WALLS HAS ATTAINED, ON THE BASIS OF AN APPROPRIATE ASTM STANDARD TEST METHOD OF FIELD-CURED SAMPLES, EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING STEEL ERECTION.	
PROVIDE STRUCTURAL ENGINEER A COPY OF WRITTEN NOTIFICATION WHEN IT IS PROVIDED TO THE STEEL ERECTOR.	
B. ANCHOR RODS (ANCHOR BOLTS) SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE APPROVAL OF THE PROJECT STRUCTURAL ENGINEER OF RECORD.	
PRIOR TO ERECTION OF COLUMNS, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE STEEL ERECTOR IF THERE HAS BEEN ANY REPAIR, REPLACEMENT OR MODIFICATION OF THE ANCHOR RODS (ANCHOR BOLTS).	
PROVIDE STRUCTURAL ENGINEER A COPY OF WRITTEN NOTIFICATION WHEN IT IS PROVIDED TO THE STEEL ERECTOR.	
C. NO MODIFICATION THAT AFFECTS THE STRENGTH OF A STEEL JOIST OR STEEL JOIST GIRDER SHALL BE MADE WITHOUT THE APPROVAL OF THE PROJECT STRUCTURAL ENGINEER OF RECORD.	
D. METAL DECKING HOLES AND OPENINGS SHALL NOT BE CUT UNTIL IMMEDIATELY PRIOR TO BEING PERMANENTLY FILLED WITH THE EQUIPMENT OR STRUCTURE OR SHALL BE IMMEDIATELY COVERED.	

GENERAL STRUCTURAL NOTES	
DRAWINGS:	
DO NOT SCALE DRAWINGS.	
WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DETAILS NOTED "TYPICAL" APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.	
CAST-IN-PLACE CONCRETE:	
ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301-10.	
ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.	
NORMALWEIGHT CONCRETE:	
A. FC = 4500 PSI @ 28 DAYS – ALL CONCRETE EXPOSED TO FREEZE/THAW CYCLES AND OCCASIONAL MOISTURE, INCLUDING CONCRETE FLAT WORK, EXPOSED BUILDING STEM WALLS, SITE WALLS, ETC. ... EXTERIOR CONCRETE SHALL MEET EXPOSURE CATEGORY AND CLASS F2 ACCORDING TO ACI 318 TABLE 19.3.1.1.	
B. FC = 4000 PSI @ 28 DAYS - ALL INTERIOR CONCRETE (I.E. FOOTINGS, PEDESTALS, TIE BEAMS, GRADE BEAMS, INTERIOR RETAINING WALLS, ETC.).	
C. FC = 3000 PSI @ 28 DAYS - ALL INTERIOR SLABS ON GRADE, UNLESS NOTED OTHERWISE.	
CONCRETE MIX DESIGNS (INCLUDING AIR CONTENT, WATER TO CEMENT RATIOS, AND OTHER CRITERIA) SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN ACI 318 TABLE 19.3.2.1, BASED ON THE EXPOSURE CATEGORIES AND CLASSES DEFINED IN ACI 318 TABLE 19.3.1.1. USE AIR ENTRAINING ADMIXTURE IN ALL EXTERIOR CONCRETE. AIR CONTENT IN FIRE RATED SLABS SHALL ALSO COMPLY WITH THE REQUIREMENTS IN THE SPECIFIED UL LISTING.	
COLD WEATHER CONCRETING: PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH CAUSED BY FROST, FREEZING OR LOW TEMPERATURES. COMPLY WITH ACI 306.1.	
HOT WEATHER CONCRETING: WHEN HOT WEATHER CONDITIONS EXIST THAT WOULD IMPAIR THE QUALITY AND STRENGTH OF THE CONCRETE, REDUCE DELIVERY TIME OF READY-MIX CONCRETE, LOWER THE TEMPERATURE OF MATERIALS, OR ADD RETARDER TO ENSURE THAT THE CONCRETE IS PLASTIC. RE-TEMPERING WITH WATER IS NOT ALLOWED. COMPLY WITH ACI 305R.	
SLAB CURING: ALL INTERIOR CONCRETE SLABS, EXCEPT EXPOSED INTEGRALLY COLORED SLABS, ARE TO BE CURED WITH A MOISTURE RETAINING COVER FOR THE FIRST 7 DAYS MINIMUM AFTER PLACEMENT.	
THE CONTRACTOR SHALL NOT CAST FOUNDATIONS AGAINST EXCAVATED VERTICAL SIDE SURFACES.	
THE CONTRACTOR IS ALLOWED TO CAST FOUNDATIONS AGAINST EXCAVATED SOIL SURFACES, PROVIDED THE FOLLOWING IS ADHERED TO:	
A. THE SIDE SLOPES OF THE EXCAVATION SHALL BE ABLE TO MAINTAIN VERTICAL SLOPE WITHOUT SOIL SLOUGHAGE.	
B. THE BOTTOM WIDTH OF THE EXCAVATION SHALL BE ONE INCH WIDER MINIMUM ON EACH SIDE THAN THE SPECIFIED FOOTING WIDTH.	
C. THE SIDE WALLS OF THE EXCAVATION SHALL BE BATTERED A MINIMUM OF ONE INCH HORIZONTAL TO TWELVE INCHES VERTICAL.	
D. IF SANDY OR LOOSE MATERIALS ARE ENCOUNTERED, THE FOOTING MUST BE FORMED.	
E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY SOIL SLOUGHAGE FROM THE WET CONCRETE DURING THE CASTING OPERATION.	
F. THE CONTRACTOR AGREES TO REMOVE AND RECAST ANY FOOTING WHERE THE ABOVE CONDITIONS ARE NOT MET.	
EXPOSED SITE WALLS, RETAINING WALLS, AND STEM WALLS GREATER THAN 30 FEET IN LENGTH SHALL HAVE CONTROL JOINTS INSTALLED AT THE FOLLOWING MAXIMUM SPACING:	
12'-0" ON CENTER FOR WALLS 6'-0" MAXIMUM HEIGHT	
18'-0" ON CENTER FOR WALLS 10'-0" MAXIMUM HEIGHT	
20'-0" ON CENTER FOR WALLS GREATER THAN 10'-0" IN HEIGHT	
ALL CONCRETE EXPOSED TO GROUND SHALL BE MANUFACTURED WITH PORTLAND CEMENT TYPE II OR TYPE V.	

<div>CHURCH ROCK PHASE II FACTORY</div> <div>CHURCH ROCK, NEW MEXICO</div> <div>CONSTRUCTION DOCUMENTS - PROGRESS</div> <div>FEBRUARY 18, 2022</div> <div>OWNER: NAVAJO NATION DEPARTMENT OF ECONOMIC DEVELOPMENT</div>																									
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<div>CONSULTANT INFO & LOGO</div> <div>Chavez-Grievos consulting engineers, inc. 4700 Lincoln Rd NE #102 Albuquerque, NM 87109 (505) 344-4080</div>																									
<div>CONSULTANT STAMP</div> <div>NOT FOR CONSTRUCTION</div>																									
<table><tr><th>MARK</th><th>DATE</th><th>DESCRIPTION</th></tr><tr><td></td><td>FEBRUARY 18, 2022</td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>		MARK	DATE	DESCRIPTION		FEBRUARY 18, 2022																			
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<div>SHEET TITLE</div> <div>GENERAL STRUCTURAL NOTES</div>																									
<div>SHEET NUMBER</div> <div>S-002</div>																									

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



A1 PHASING PLAN
SCALE: 1" = 30'-0"

GENERAL SHEET NOTES

SHEET KEYNOTE

1. COMBINED FOOTING IS PART OF PHASE 3 FOUNDATIONS.
SEE FOUNDATION PLAN FOR EXACT DIMENSIONS AND
LOCATION. REFER TO FOUNDATION PLANS AND SCHEDULES
FOR PHASE 3 BASE PLATE AND ANCHOR CONFIGURATION.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

OWNER:
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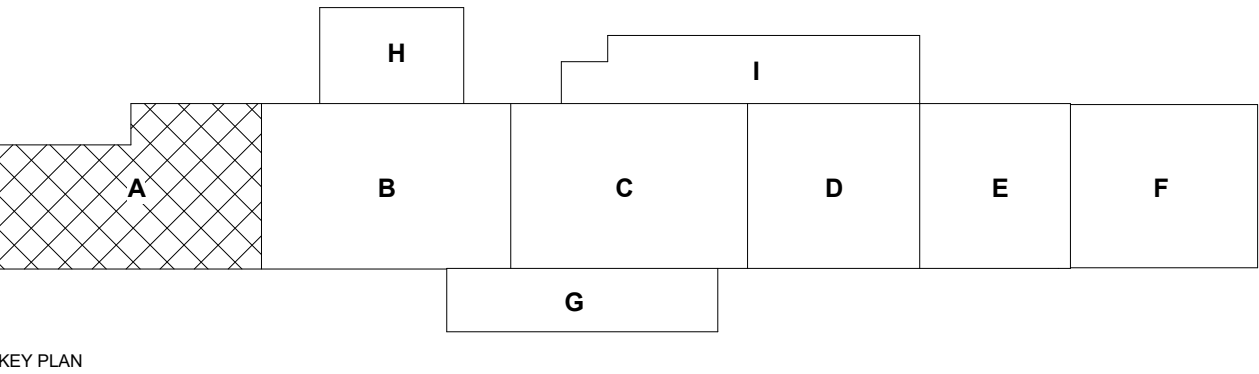
SHEET TITLE

**OVERALL
PHASING PLAN**

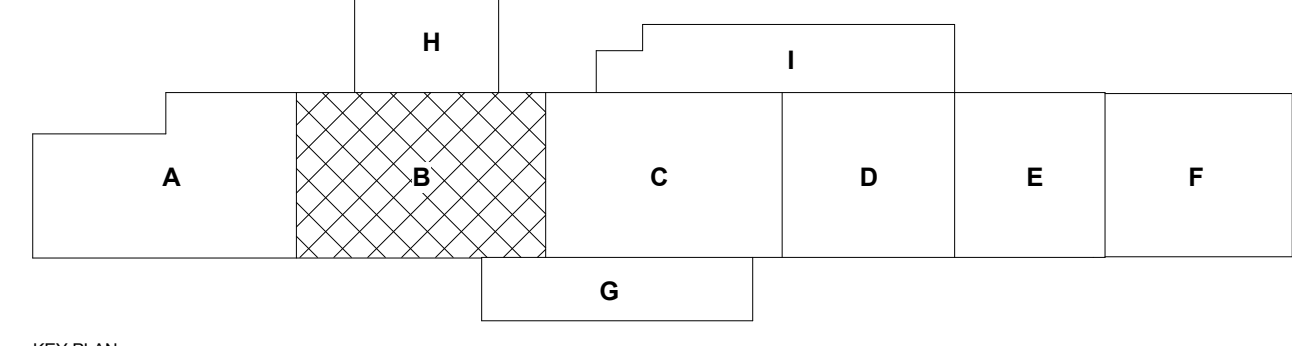
SHEET NUMBER

S-100

Sequence of



Sequence of



- ## SHEET KEYNOTE
- | | |
|---|---|
| 6 | 1. 6" CONCRETE SLAB REINFORCED WITH #4 @ 12" O.C. EACH WAY OVER 8" LAYER OF CLEAN-GRANDED GRAVEL AGGREGATE BASE COURSE OVER 3'-0" OF COMPACTED ENGINEERED FILL. FINISH FLOOR ELEVATION - 100'-0" = MSL. ELEVATION, SEE CIVIL. |
| 7 | 2. FLOOR DRAIN, SLOPE SLAB TO DRAIN 1/8" PER FOOT. COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. |
| 8 | 3. COMBINED 2'-0" DEEP FLOOR W/ #7 CONTINUOUS BARS @ 10" O.C. MAX TOP AND BOTTOM AND #7 TRANSVERSE BARS @ 10" O.C. MAX TOP & BOTTOM. |

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS - PROGRESS

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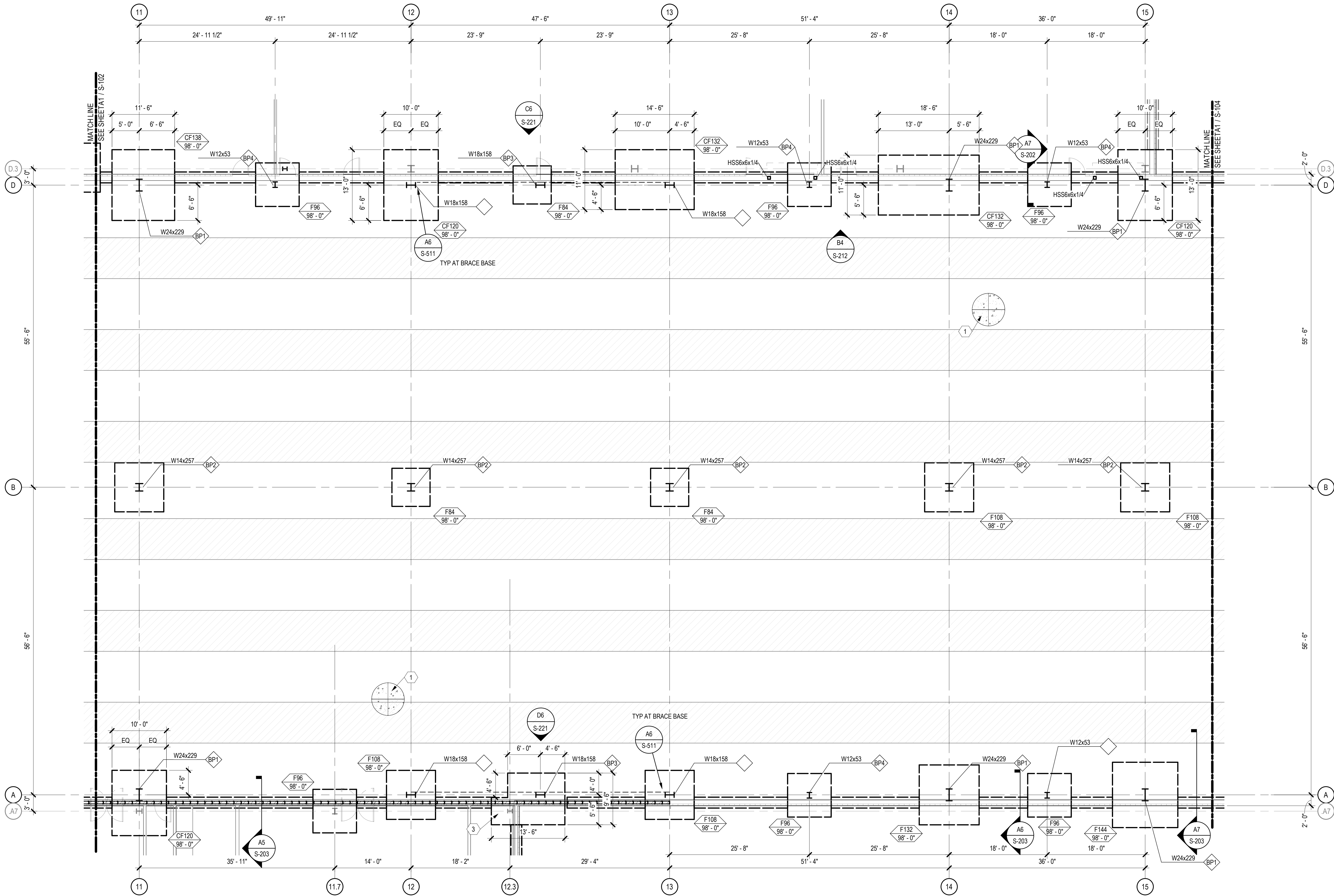
**FOUNDATION
PLAN - AREA B
FACTORY**

SHEET NUMBER

S-102

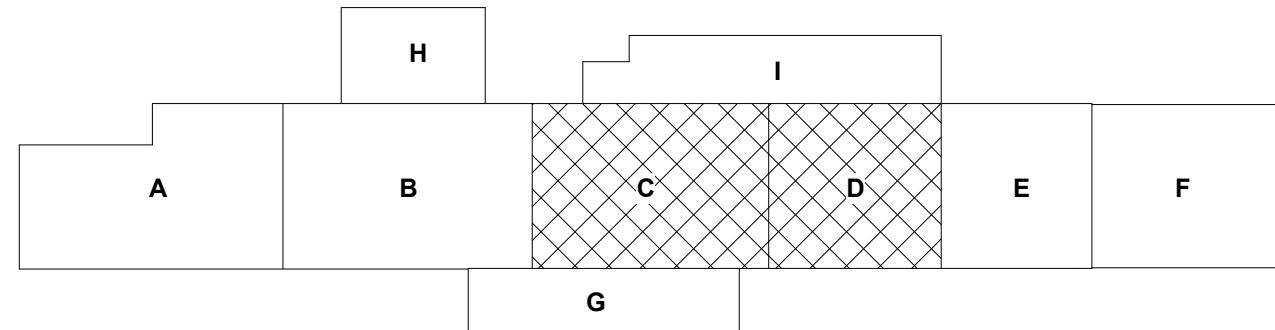
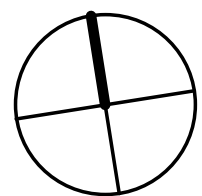
Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



A1 FOUNDATION PLAN - AREA C & D FACTORY

SCALE: 1/8" = 1'-0"



GENERAL SHEET NOTES

- SOME SHEET KEYNOTES MAY NOT APPLY TO THIS SHEET.
- REFERENCE FINISH FLOOR ELEVATION 100'-0" = MEAN SEA FINISH FLOOR ELEVATION. SEE CIVIL DRAWINGS.
- NOTE TO CONTRACTOR: ENLARGED SLAB BLOCKOUTS MAY BE REQUIRED AT FRAME COLUMNS FOR BRACED FRAME GUSSET PLATE CLEARANCE.
- PROVIDE BLOCKOUTS AT ALL COLUMNS UNLESS NOTED OTHERWISE.
- DIMENSIONS ARE TO THE FACE OF CONCRETE UNLESS NOTED OTHERWISE.
- PROVIDE SLAB JOINTS AT (JOINT SPACING) ON CENTER. MAXIMUM, THE AREA OF THE CONTROL JOINT SHALL NOT EXCEED A 2:1 RATIO. CONTROL JOINTS SHALL BE LOCATED AT COLUMN LINES WHERE THE LAYOUT PERMITS. AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL JOINTS, PROVIDE 2-#4 x 3'-0" DIAGONAL TO THE RE-ENTRANT CORNER.
- SEE SHEET S-301 FOR TYPICAL FOUNDATION SECTIONS AND DETAILS.

SHEET KEYNOTE

- 6" CONCRETE SLAB REINFORCED WITH #4 @ 12" O.C. EACH WAY OVER 6" LAYER OF CLEAN-GRADED GRAVEL. AGGREGATE BASE COURSE OVER 3'-0" OF COMPACTED ENGINEERED FILL. FINISH FLOOR ELEVATION - 100'-0" = MSL ELEVATION. SEE CIVIL.
- FLOOR DRAIN, SLOPE SLAB TO DRAIN 1/8" PER FOOT. COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- COMBINED 2'-0" DEEP FOOTING W/ #7 CONTINUOUS BARS @ 10" O.C. MAX TOP AND BOTTOM AND #7 TRANSVERSE BARS @ 10" O.C. MAX TOP & BOTTOM.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
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SHEET TITLE

**FOUNDATION
PLAN - AREAS C &
D FACTORY**

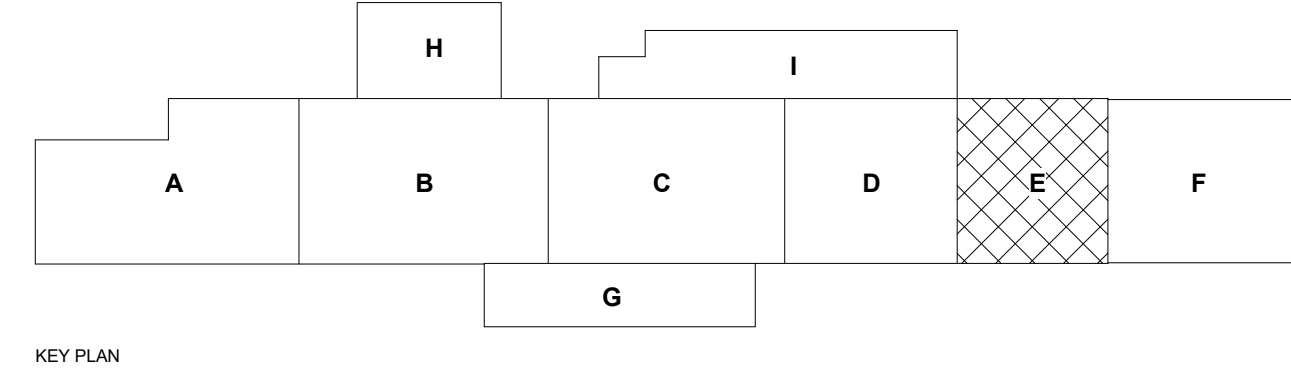
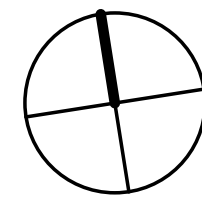
SHEET NUMBER

S-103

Sequence of



SCALE: 1/8" = 1'-0"



KEY PLAN

SHEET KEYNOTE

1. 6" CONCRETE SLAB REINFORCED WITH #4 @ 12" O.C. EACH WAY OVER 6" LAYER OF CLEAN-GRADED GRAVEL.
AGGREGATE BASE COURSE OVER 3'-0" OF COMPACTED ENGINEERED FILL. FINISH FLOOR ELEVATION - 100'-0" = MSL ELEVATION. SEE CIVIL.
2. FLOOR DRAIN, SLOPE SLAB TO DRAIN 1/8" PER FOOT.
COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
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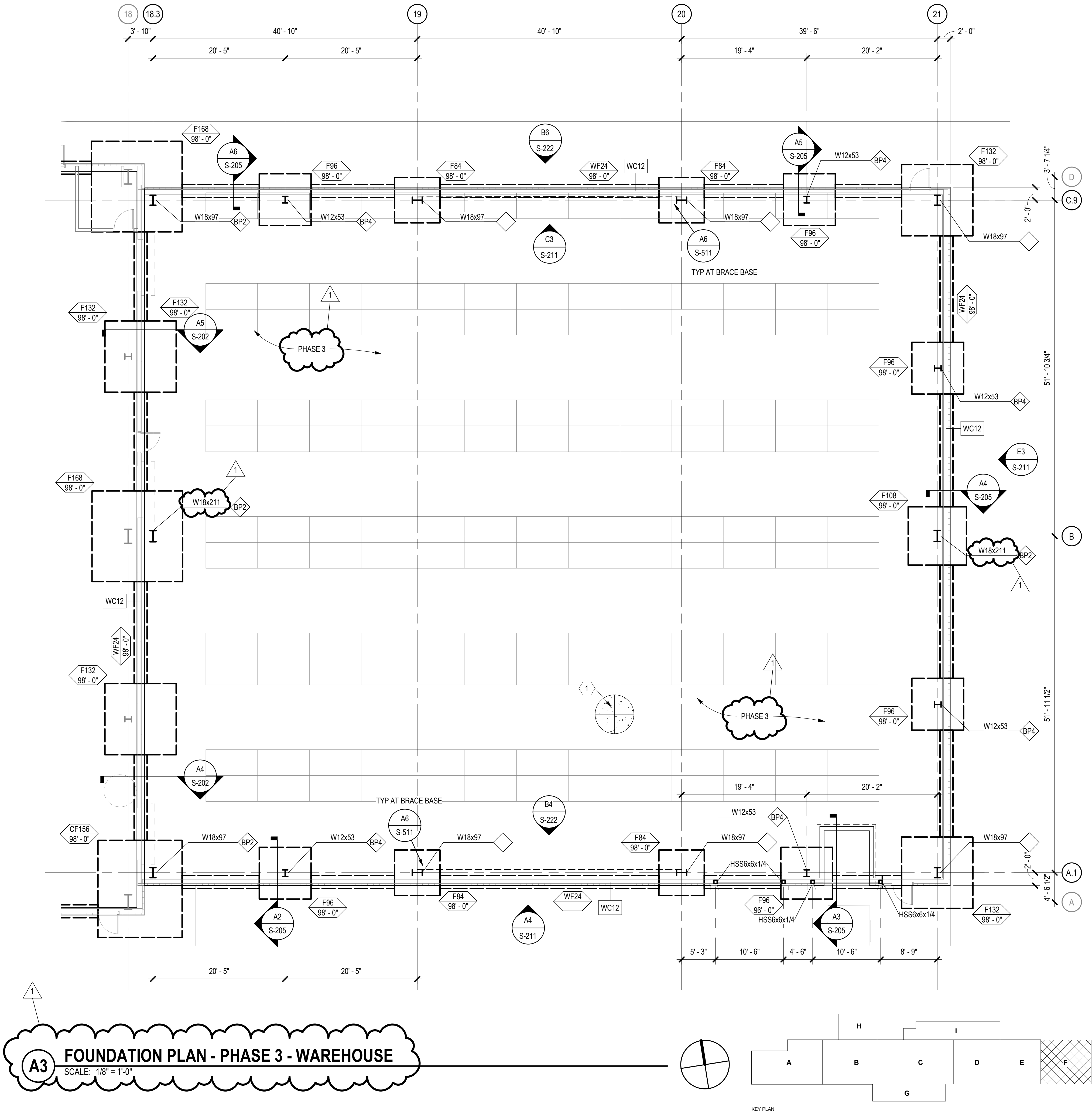
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**FOUNDATION
PLAN - AREA E
FACTORY**

S-104

Sequence of

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GENERAL SHEET NOTES

- SOME SHEET KEYNOTES MAY NOT APPLY TO THIS SHEET.
- REFERENCE FINISH FLOOR ELEVATION 100'-0" = MEAN SEA FINISH FLOOR ELEVATION. SEE CIVIL DRAWINGS.
- NOTE TO CONTRACTOR: ENLARGED SLAB BLOCKOUTS MAY BE REQUIRED AT FRAME COLUMNS FOR BRACED FRAME GUSSET PLATE CLEARANCE.
- PROVIDE BLOCKOUTS AT ALL COLUMNS UNLESS NOTED OTHERWISE.
- DIMENSIONS ARE TO THE FACE OF CONCRETE UNLESS NOTED OTHERWISE.
- PROVIDE SLAB JOINTS AT [JOINT SPACING] ON CENTER MAXIMUM. THE AREA OF THE CONTROL JOINT SHALL NOT EXCEED A 2.1 RATIO. CONTROL JOINTS SHALL BE LOCATED AT COLUMN LINES WHERE THE LAYOUT PERMITS. AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL JOINTS, PROVIDE 2-#4 x 3'-0" DIAGONAL TO THE RE-ENTRANT CORNER.
- SEE SHEET S-301 FOR TYPICAL FOUNDATION SECTIONS AND DETAILS.

SHEET KEYNOTE

- 6" CONCRETE SLAB REINFORCED WITH #4 @ 12" O.C. EACH WAY OVER 6" LAYER OF CLEAN-GRADED GRAVEL. AGGREGATE BASE COURSE OVER 3'-0" OF COMPACTED ENGINEERED FILL. FINISH FLOOR ELEVATION - 100'-0" = MSL ELEVATION. SEE CIVIL.
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CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

OWNER:
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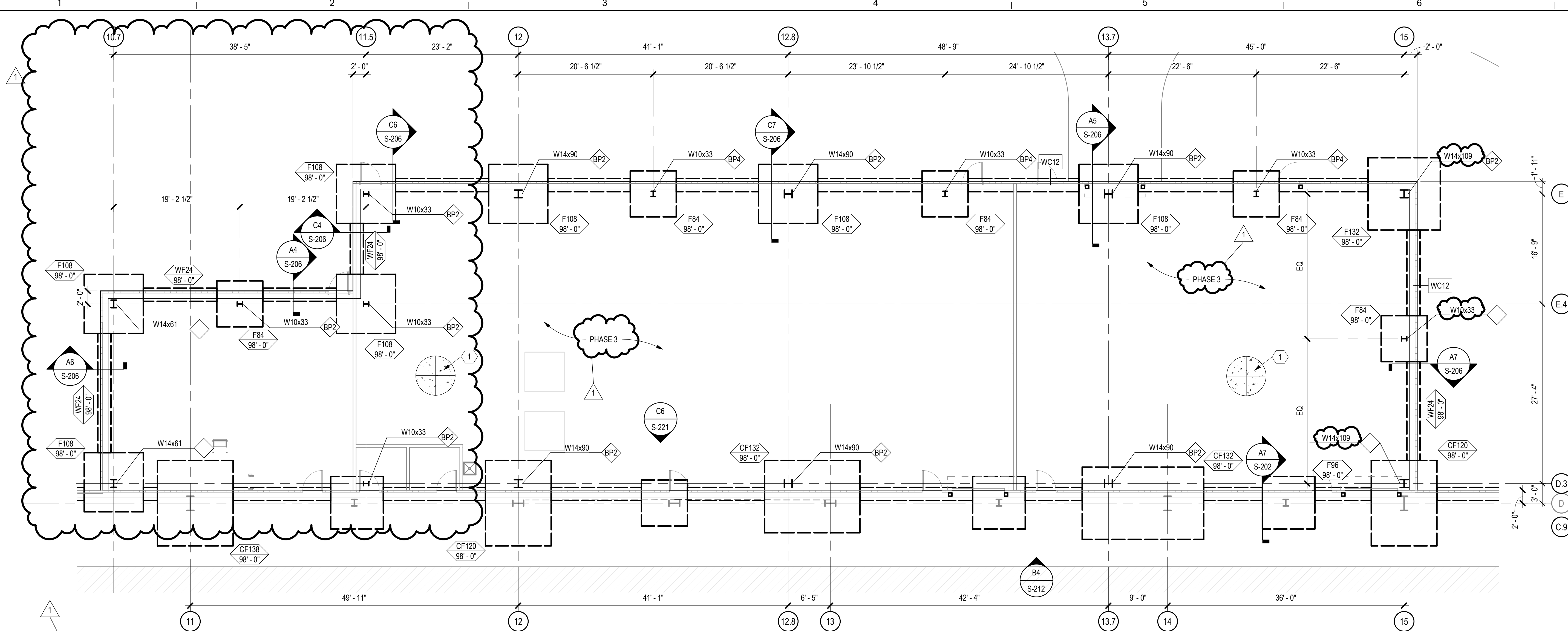
**FOUNDATION
PLAN - AREA F
WAREHOUSE**

SHEET NUMBER

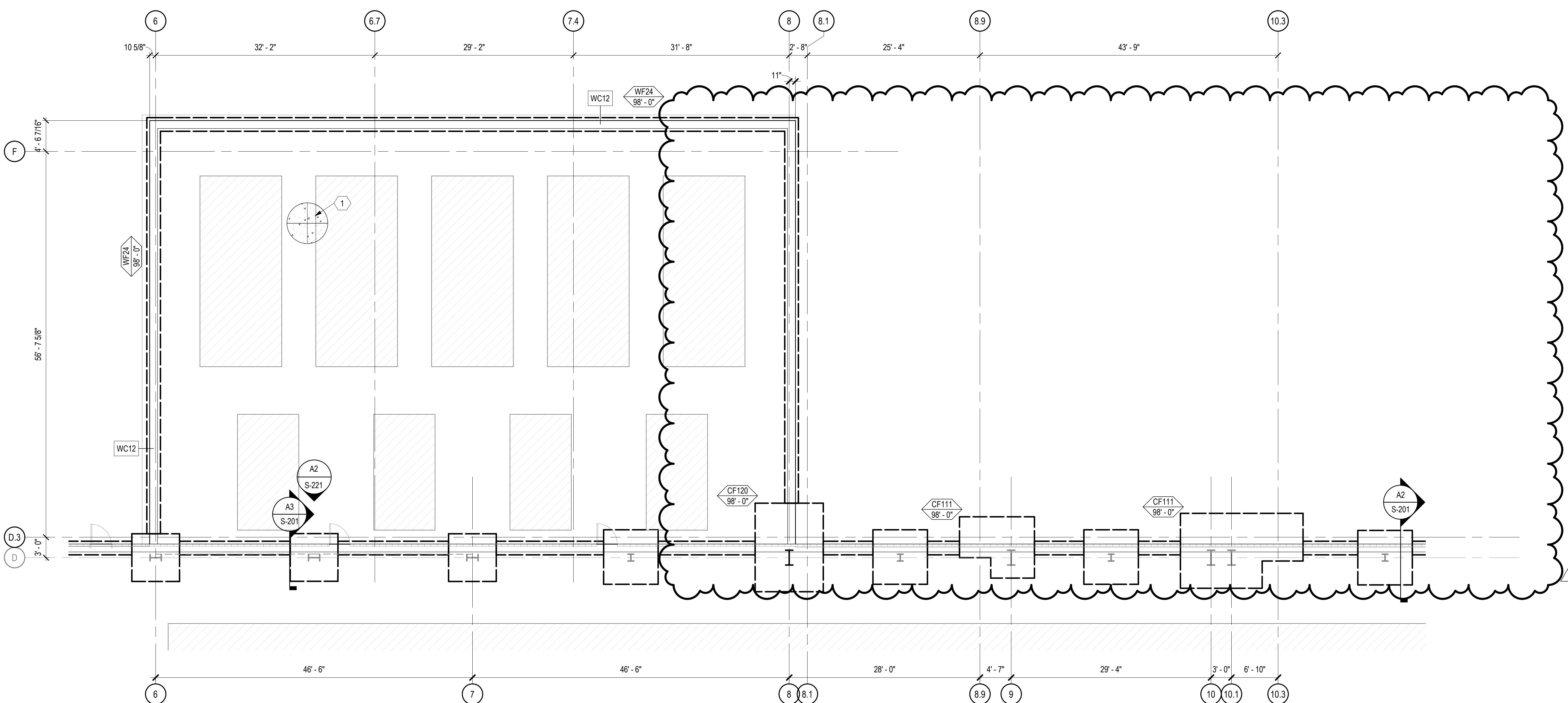
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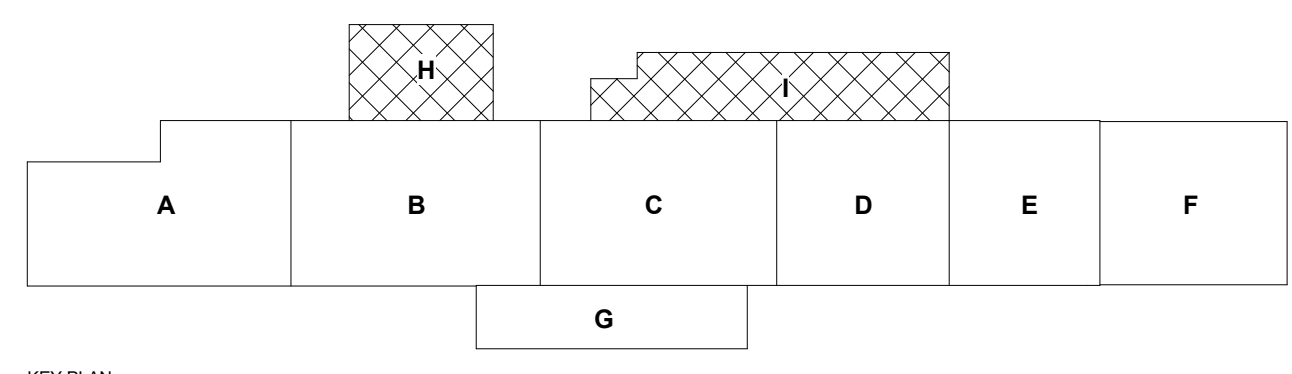
BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



C1 FOUNDATION PLAN - PHASE 3 - AREA I MECHANICAL
SCALE: 1/8" = 1'-0"



A1 FOUNDATION PLAN - PHASE 3 - AREA H MECHANICAL
SCALE: 1/8" = 1'-0"



GENERAL SHEET NOTES

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SHEET KEYNOTE

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CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022
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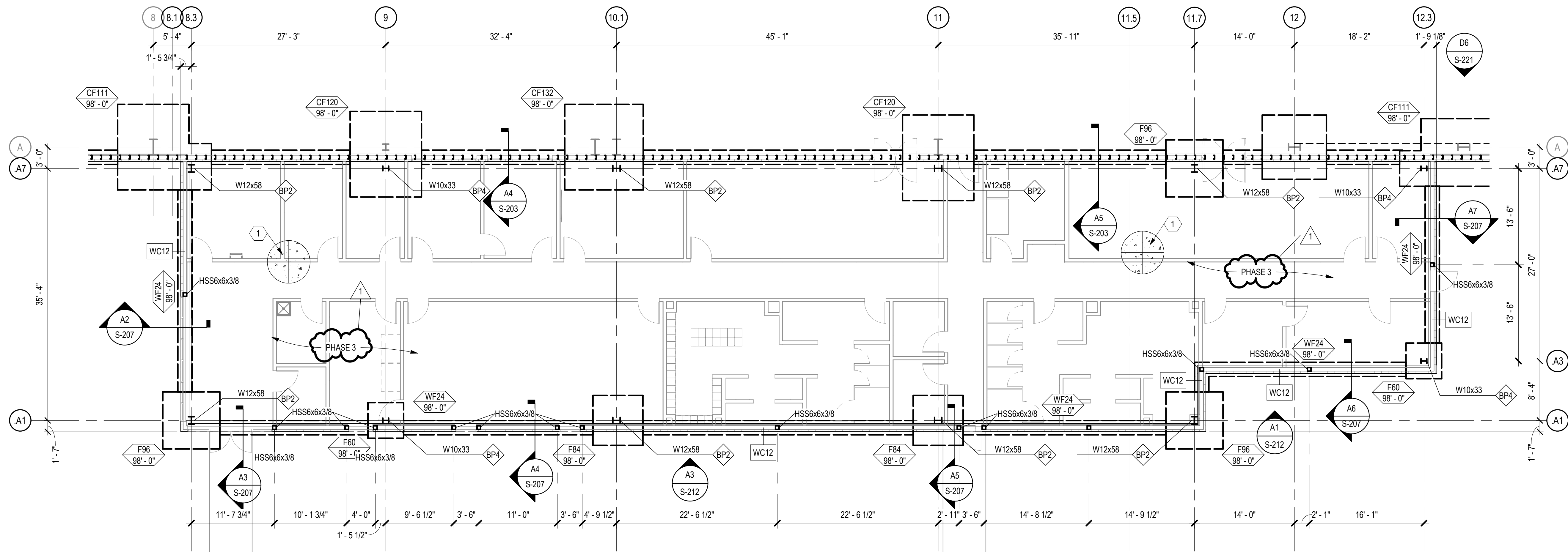
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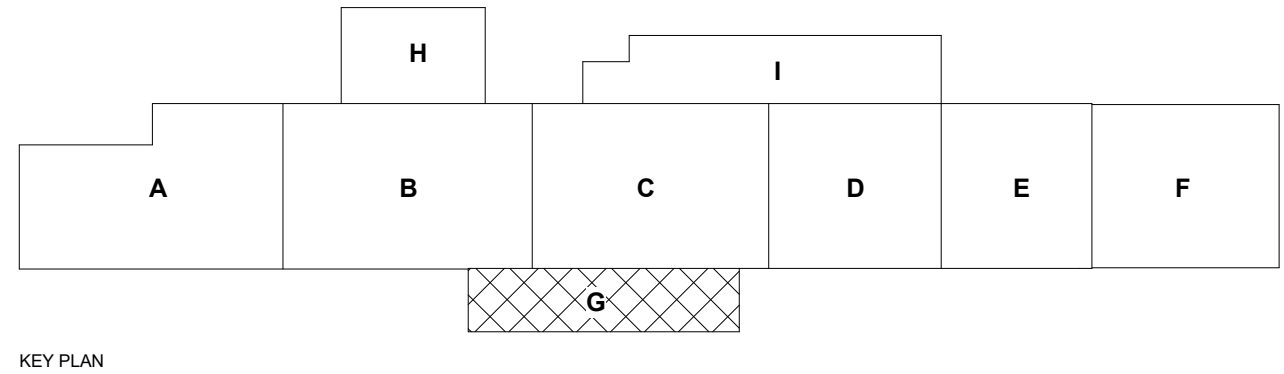
SHEET TITLE
FOUNDATION PLAN - AREAS H & I MECHANICAL

SHEET NUMBER
S-106
Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



A2 FOUNDATION PLAN - PHASE 3 - AREA G ADMIN
SCALE: 1/8" = 1'-0"



GENERAL SHEET NOTES

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- REFERENCE FINISH FLOOR ELEVATION 100'-0" = MEAN SEA FINISH FLOOR ELEVATION. SEE CIVIL DRAWINGS.
- NOTE TO CONTRACTOR: ENLARGED SLAB BLOCKOUTS MAY BE REQUIRED AT FRAME COLUMNS FOR BRACED FRAME GUSSET PLATE CLEARANCE.
- PROVIDE BLOCKOUTS AT ALL COLUMNS UNLESS NOTED OTHERWISE.
- DIMENSIONS ARE TO THE FACE OF CONCRETE UNLESS NOTED OTHERWISE.
- PROVIDE SLAB JOINTS AT (JOINT SPACING) ON CENTER MAXIMUM. THE AREA OF THE CONTROL JOINT SHALL NOT EXCEED A 2:1 RATIO. CONTROL JOINTS SHALL BE LOCATED AT COLUMN LINES WHERE THE LAYOUT PERMITS. AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL JOINTS, PROVIDE 2-#4 x 3'-0" DIAGONAL TO THE RE-ENTRANT CORNER.
- SEE SHEET S-301 FOR TYPICAL FOUNDATION SECTIONS AND DETAILS.

SHEET KEYNOTE

- 6" CONCRETE SLAB REINFORCED WITH #4 @ 12" O.C. EACH WAY OVER 6" LAYER OF CLEAN-GRADED GRAVEL AGGREGATE BASE COURSE OVER 3'-0" OF COMPACTED ENGINEERED FILL. FINISH FLOOR ELEVATION - 100'-0" = MSL ELEVATION. SEE CIVIL.
- FLOOR DRAIN, SLOPE SLAB TO DRAIN 1/8" PER FOOT. COORDINATE EXACT SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- COMBINED 2'-0" DEEP FOOTING W/ #7 CONTINUOUS BARS @ 10" O.C. MAX TOP AND BOTTOM AND #7 TRANSVERSE BARS @ 10" O.C. MAX TOP & BOTTOM.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

OWNER:
NAVAJO NATION DEPARTMENT OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



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CONSULTANT INFO & LOGO



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consulting engineers, inc.
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Albuquerque, NM 87109
(505) 344-4080

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PROJECT NUMBER: 123-117
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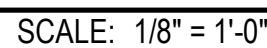
SHEET TITLE

**FOUNDATION
PLAN - AREA G
ADMIN**

SHEET NUMBER

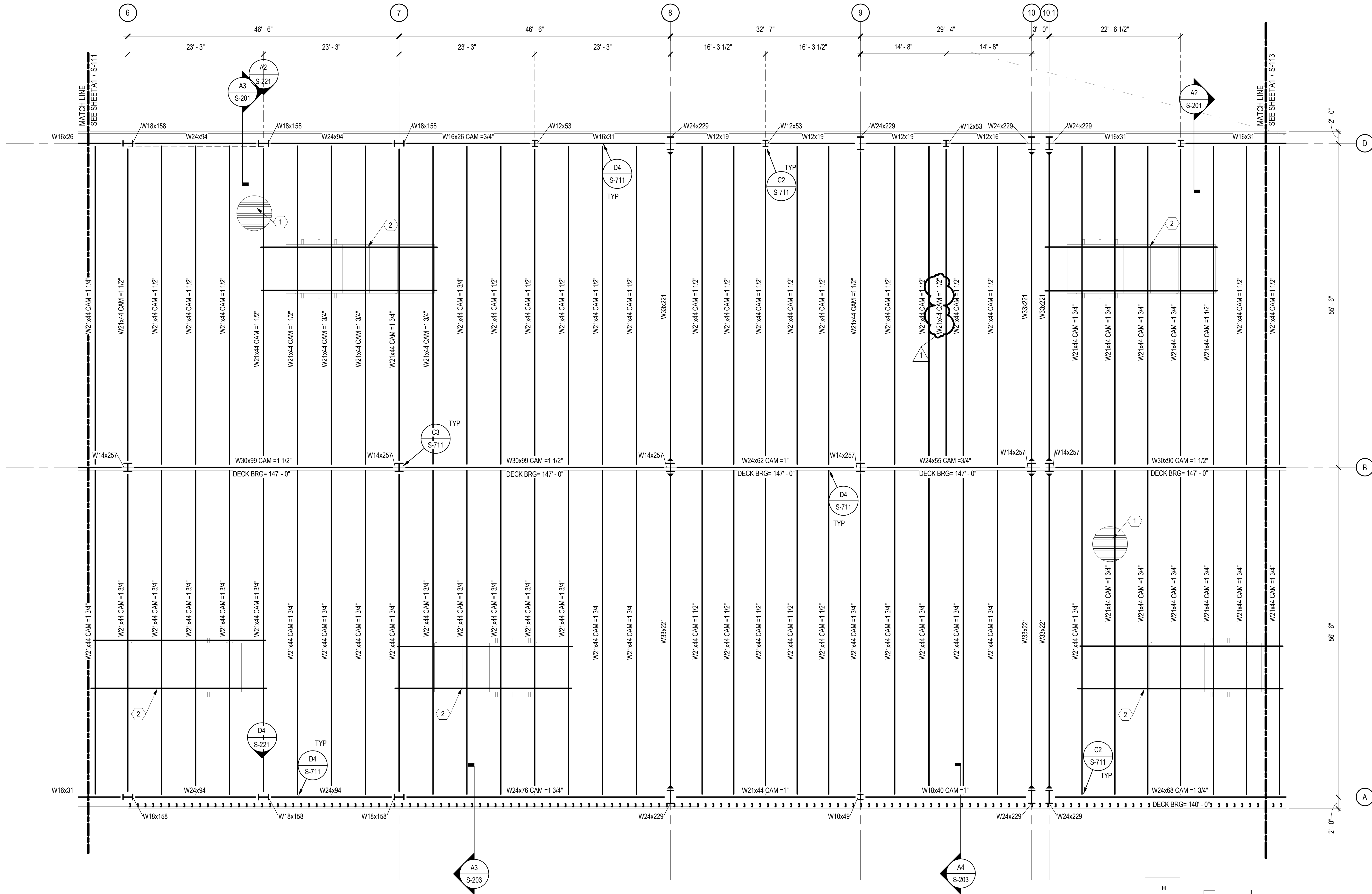
S-107

Sequence of



Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



A1 ROOF FRAMING PLAN - AREA B FACTORY
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- SOME SHEET KEYNOTES MAY NOT APPLY TO THIS SHEET.
- NOTE TO ERECTOR: THE ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STEEL FRAME IN ACCORDANCE WITH SECTION 7.10 OF THE AISC CODE OF STANDARD PRACTICES.
- DIMENSIONS ARE TO THE FACE OF KING SPAN PANELS UNLESS NOTED OTHERWISE.
- STRUCTURAL COLD FORMED METAL STUDS SHALL BE 600S162-54 AT 16" ON CENTER UNLESS NOTED OTHERWISE.
- SEE SHEET S-711 AND S-712 FOR TYPICAL DETAILS.
- SEE SHEET S-601 FOR SCHEDULES AND DETAILS.

SHEET KEYNOTE

- 1 1/2" TYP 18" 20 GAGE PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH 4 FASTENERS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH FASTENERS @ 12" O.C. ATTACH SIDELAPS WITH VERCO SIDELAP CONNECTIONS @ 18" O.C.
- MECHANICAL UNIT, COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS. SEE DETAIL C1/S-712 AND E1/S-712 FOR ROOF TOP UNIT SUPPORT FRAMING.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

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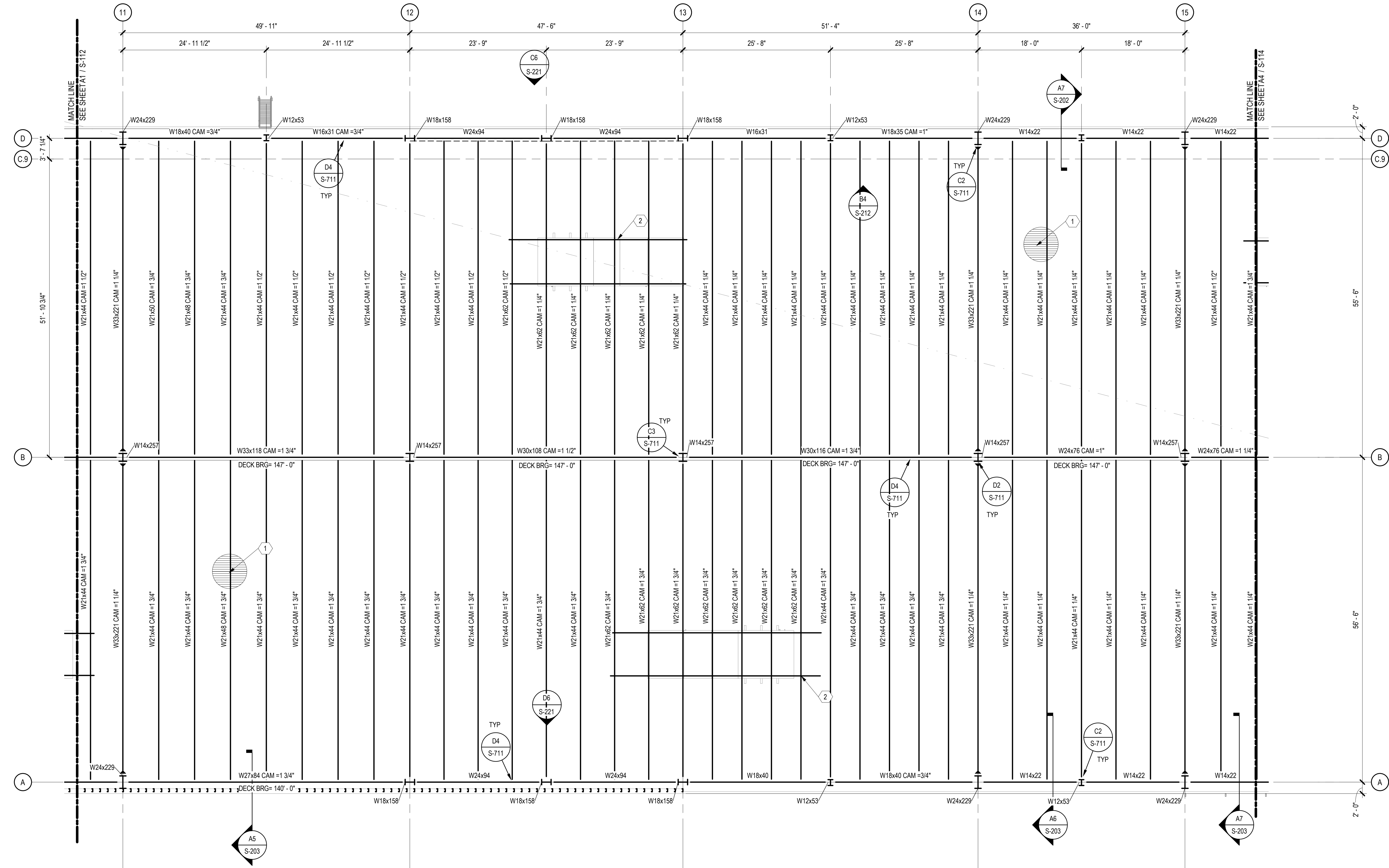
**ROOF PLAN -
AREA B FACTORY**

SHEET NUMBER

S-112

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



A1 ROOF FRAMING PLAN - AREAS C & D FACTORY
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- SOME SHEET KEYNOTES MAY NOT APPLY TO THIS SHEET.
- NOTE TO ERECTOR: THE ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STEEL FRAME IN ACCORDANCE WITH SECTION 7.10 OF THE AISC CODE OF STANDARD PRACTICES.
- DIMENSIONS ARE TO THE FACE OF KING SPAN PANELS UNLESS NOTED OTHERWISE.
- STRUCTURAL COLD FORMED METAL STUDS SHALL BE 600S162-54 AT 16" ON CENTER UNLESS NOTED OTHERWISE.
- SEE SHEET S-711 AND S-712 FOR TYPICAL DETAILS.
- SEE SHEET S-601 FOR SCHEDULES AND DETAILS.

SHEET KEYNOTE

- 1 1/2" TYPE 18" 20 GAGE PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH 4 FASTENERS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH FASTENERS @ 12" O.C. ATTACH SIDELAPS WITH VERCOS SIDELAP CONNECTIONS @ 18" O.C.
- MECHANICAL UNIT, COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS. SEE DETAIL C1/S-712 AND E1/S-712 FOR ROOF TOP UNIT SUPPORT FRAMING.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
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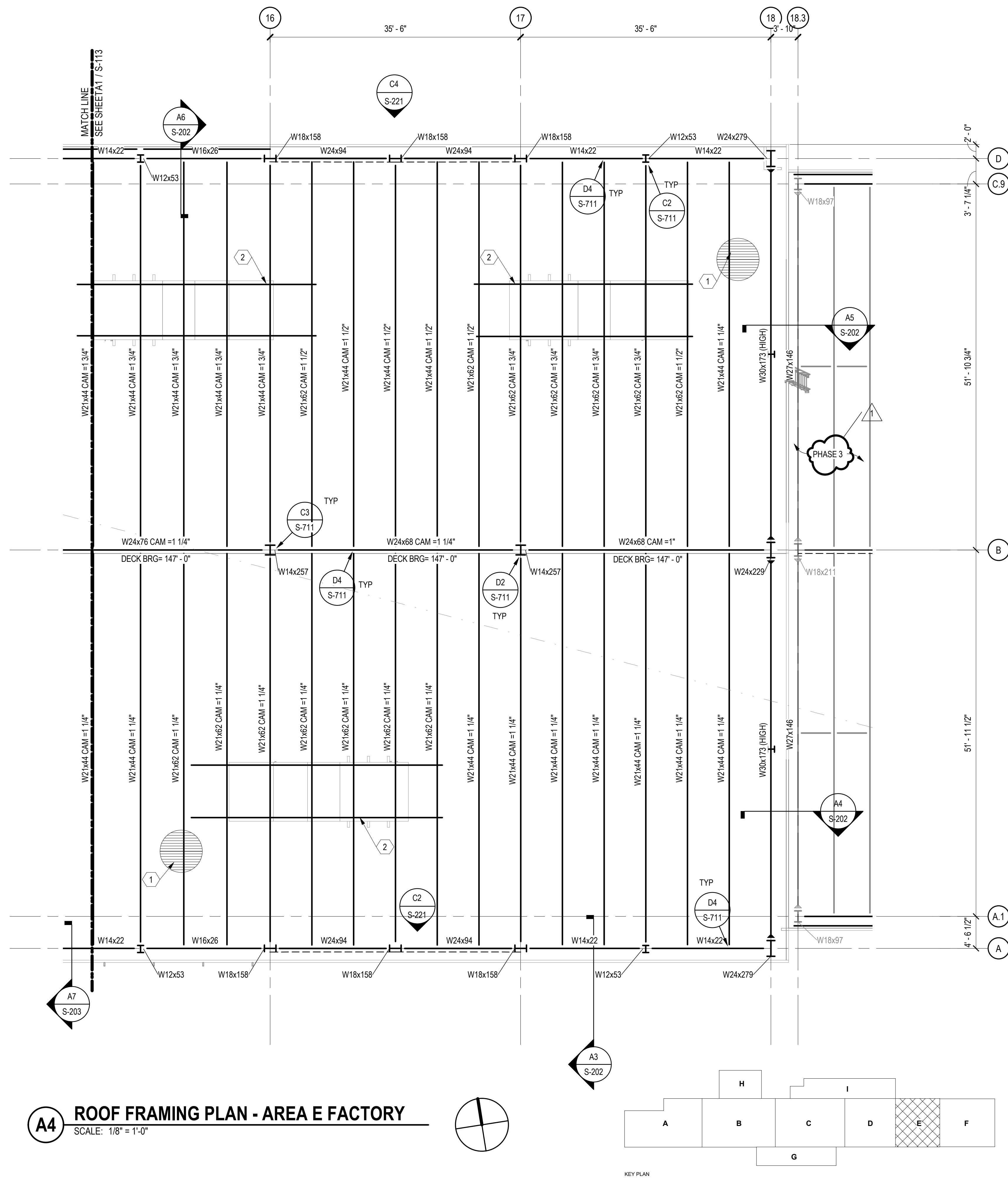
SHEET TITLE

**ROOF PLAN -
AREAS C & D
FACTORY**

SHEET NUMBER

S-113

Sequence of



GENERAL SHEET NOTES

1. SOME SHEET KEYNOTES MAY NOT APPLY TO THIS SHEET.
2. NOTE TO ERECTOR: THE ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STEEL FRAME IN ACCORDANCE WITH SECTION 7.10 OF THE AISC CODE OF STANDARD PRACTICES.
3. DIMENSIONS ARE TO THE FACE OF KING SPAN PANELS UNLESS NOTED OTHERWISE.
4. STRUCTURAL COLD FORMED METAL STUDS SHALL BE 600S162-54 AT 16" ON CENTER UNLESS NOTED OTHERWISE.
5. SEE SHEET S-711 AND S-712 FOR TYPICAL DETAILS.
6. SEE SHEET S-601 FOR SCHEDULES AND DETAILS.

SHEET KEYNOTE

1. 1 1/2", TYPE "B", 20 GAGE PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH 4 FASTENERS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH FASTENERS @ 12" O.C. ATTACH SIDELAPS WITH VERCO SIDELAP CONNECTIONS @ 18" O.C.
2. MECHANICAL UNIT, COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS. SEE DETAIL C1/S-712 AND E1/S-712 FOR ROOF TOP UNIT SUPPORT FRAMING.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
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SHEET TITLE

ROOF PLAN - AREA E FACTORY

SHEET NUMBER

S-114

Sequence of



SOME SHEET KEYNOTES MAY NOT APPLY TO THIS SHEET.

NOTE TO ERECTOR: THE ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STEEL FRAME IN ACCORDANCE WITH SECTION 7.10 OF THE AISC CODE OF STANDARD PRACTICES.

DIMENSIONS ARE TO THE FACE OF KING SPAN PANELS UNLESS NOTED OTHERWISE.

STRUCTURAL COLD FORMED METAL STUDS SHALL BE 600S162-S4 AT 16" ON CENTER UNLESS NOTED OTHERWISE.

SEE SHEET S-711 AND S-712 FOR TYPICAL DETAILS.

SEE SHEET S-601 FOR SCHEDULES AND DETAILS.

1 1/2" TYPE "B", 20 GAGE PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH 4 FASTENERS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH FASTENERS @ 12" O.C. ATTACH SIDELAPS WITH VERCO SIDELAP CONNECTIONS @ 18" O.C.

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

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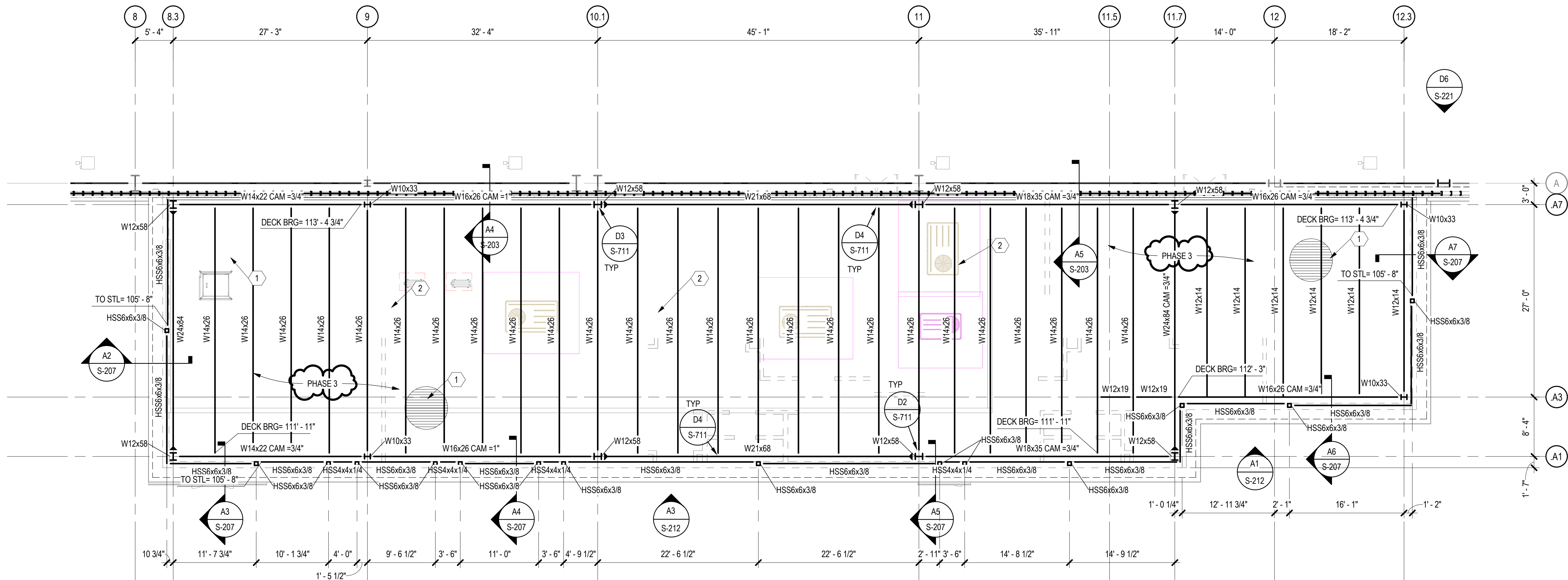
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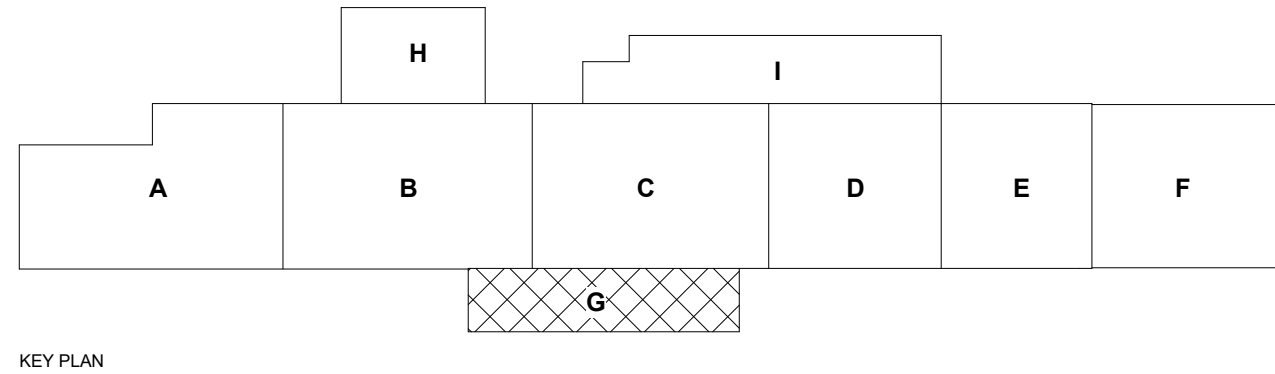
**ROOF PLAN -
AREA F
WAREHOUSE**

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



ROOF FRAMING PLAN - PHASE 3 - AREA G ADMINISTRATION
SCALE: 1/8" = 1'-0"



GENERAL SHEET NOTES

- SOME SHEET KEYNOTES MAY NOT APPLY TO THIS SHEET.
- NOTE TO ERECTOR: THE ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STEEL FRAME IN ACCORDANCE WITH SECTION 7.10 OF THE AISC CODE OF STANDARD PRACTICES.
- DIMENSIONS ARE TO THE FACE OF KING SPAN PANELS UNLESS NOTED OTHERWISE.
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- SEE SHEET S-711 AND S-712 FOR TYPICAL DETAILS.
- SEE SHEET S-601 FOR SCHEDULES AND DETAILS.

SHEET KEYNOTE

- 1 1/2" TYPE 18" 20 GAGE PAINTED METAL DECK WITH NESTABLE SIDELAPS. ATTACH DECK TO SUPPORTS PERPENDICULAR TO RIBS WITH 4 FASTENERS PER 36" WIDE SHEET AND TO SUPPORTS PARALLEL TO RIBS WITH FASTENERS @ 12" O.C. ATTACH SIDELAPS WITH VERCOS SIDELAP CONNECTIONS @ 18" O.C.
- MECHANICAL UNIT, COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS. SEE DETAIL C1/S-712 AND E1/S-712 FOR ROOF TOP UNIT SUPPORT FRAMING.

CHURCH ROCK PHASE II FACTORY

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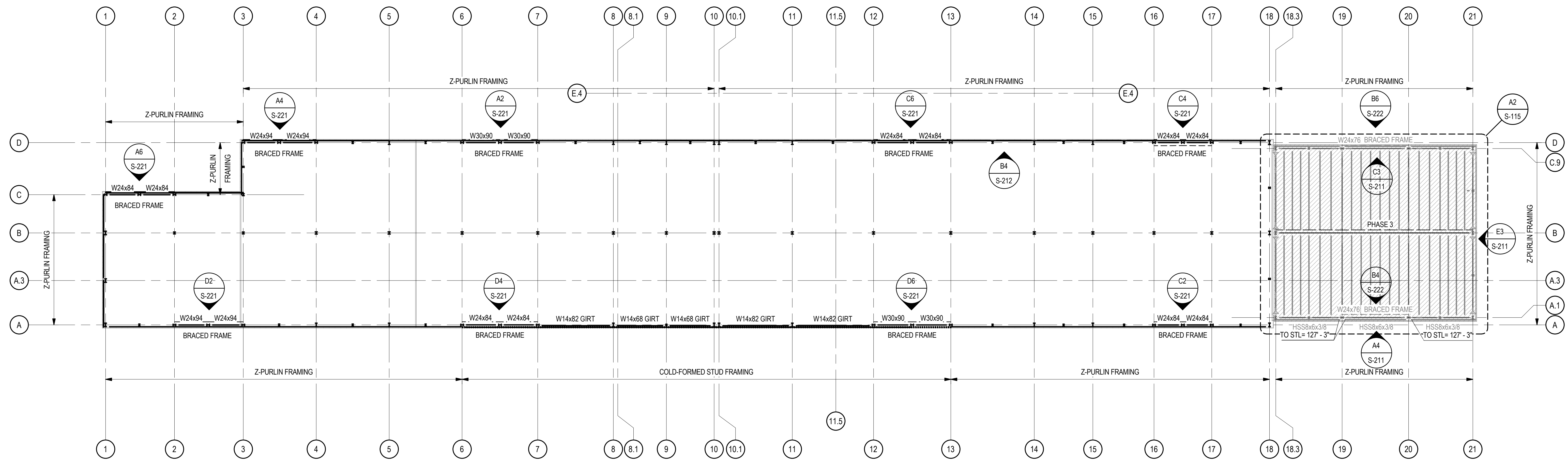
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**ROOF PLAN -
AREA G ADMIN**

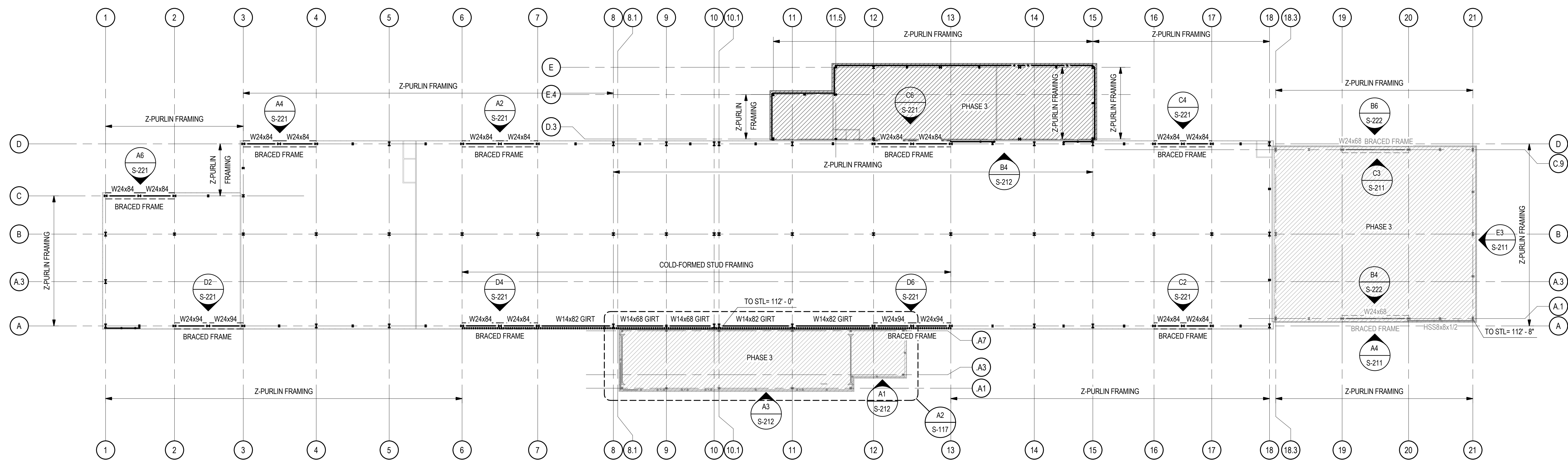
SHEET NUMBER

S-117

Sequence of



C2 INTERMEDIATE FRAMING PLAN (HIGH)
SCALE: 1" = 30'-0"



A2 INTERMEDIATE FRAMING PLAN (LOW)
SCALE: 1" = 30'-0"

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
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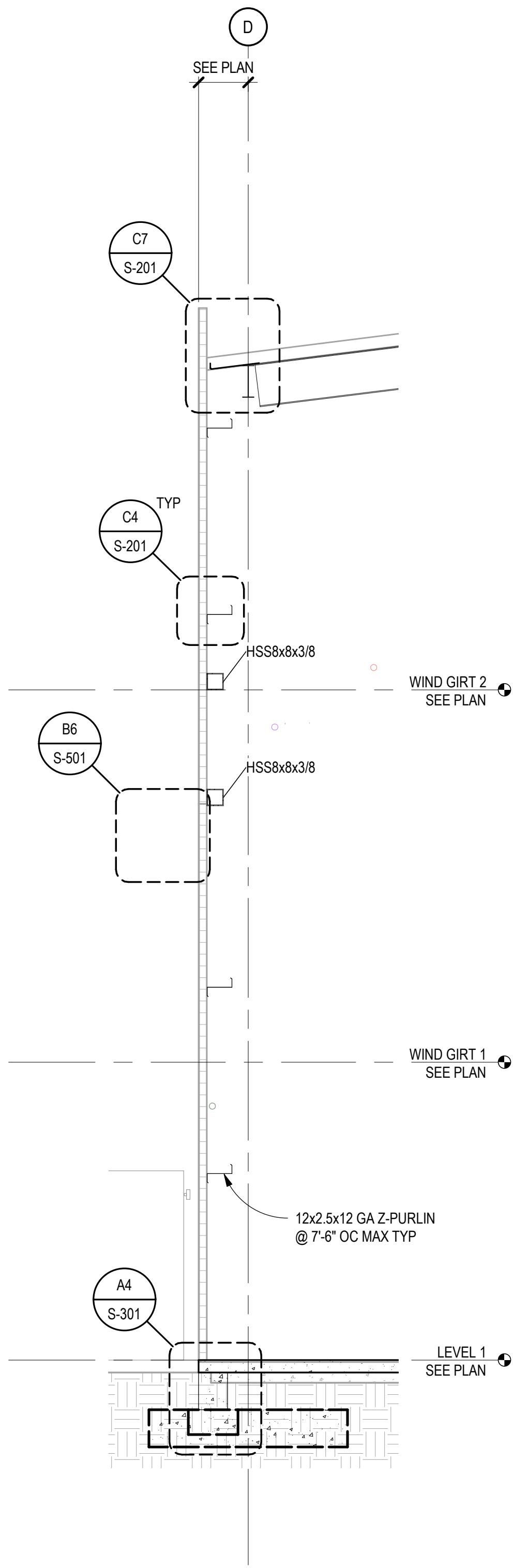
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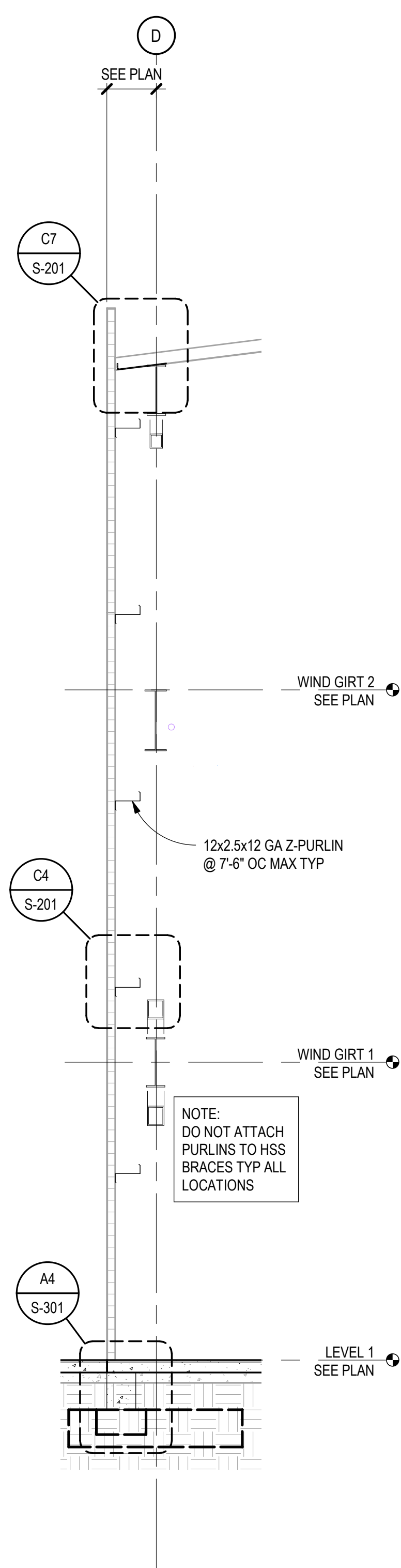
SHEET TITLE
INTERMEDIATE FRAMING PLANS

SHEET NUMBER
S-121
Sequence of

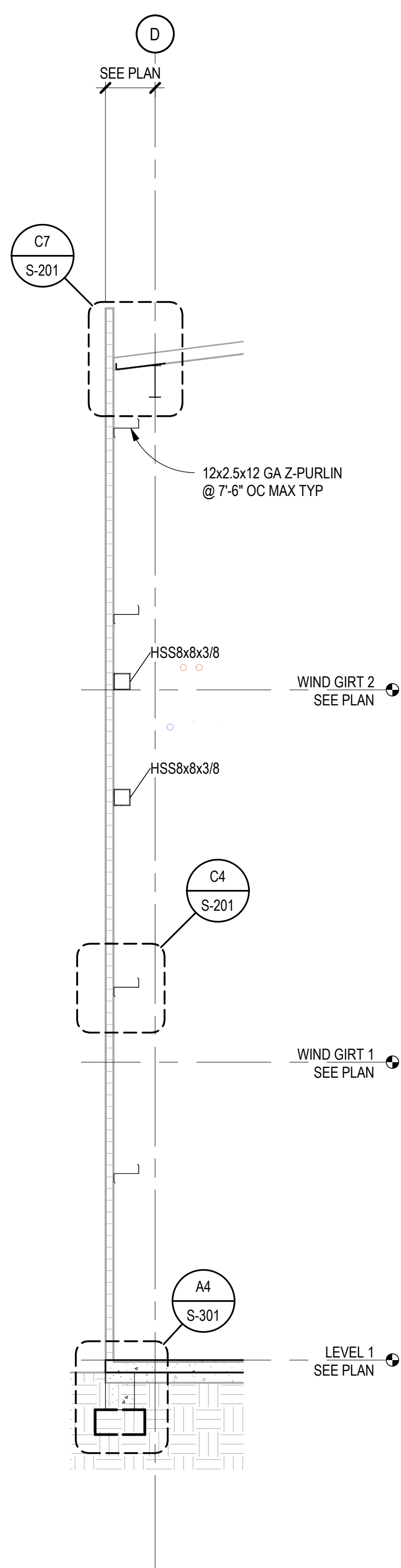
BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



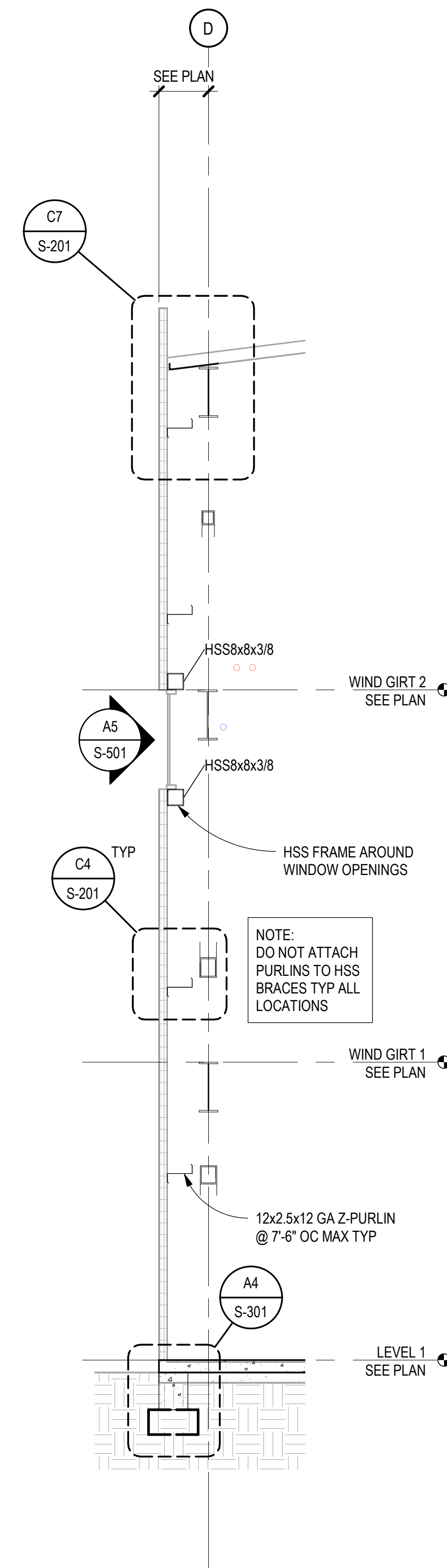
A2 WALL SECTION
SCALE: 1/4" = 1'-0"



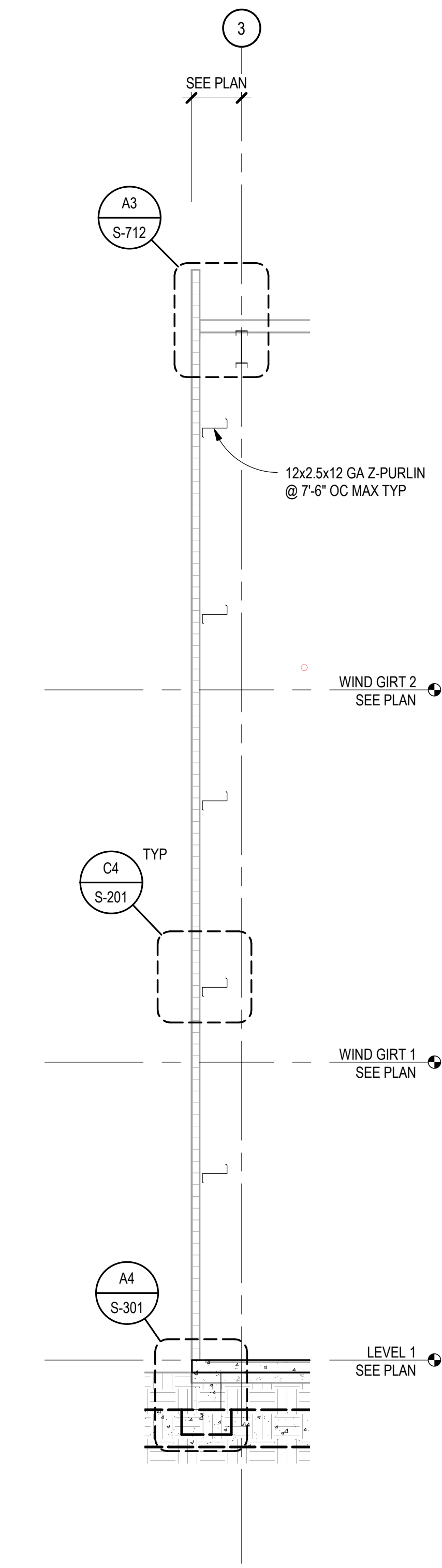
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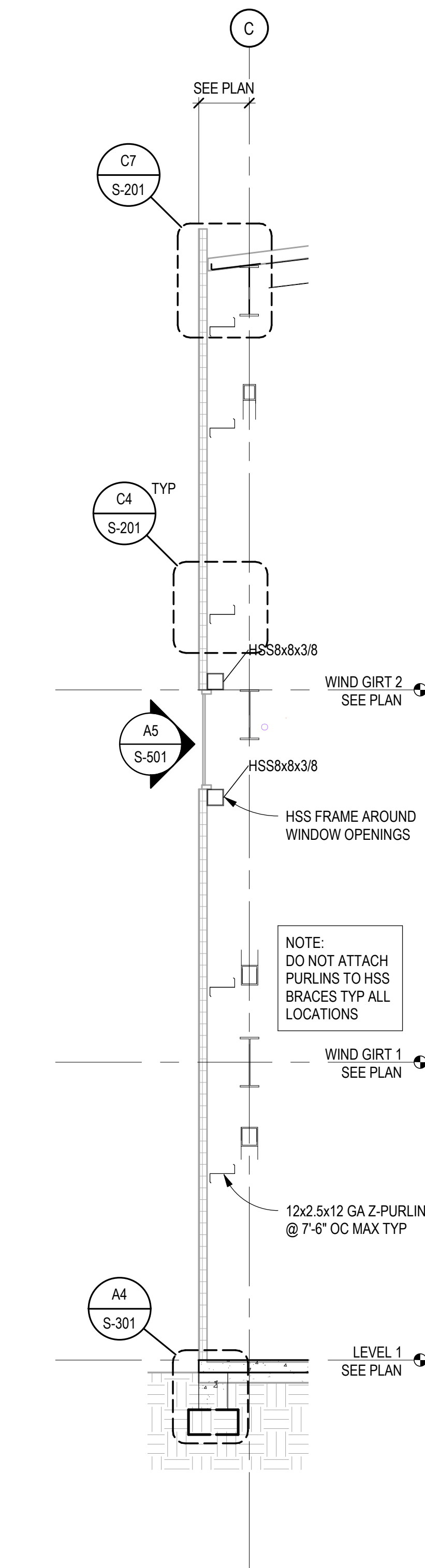
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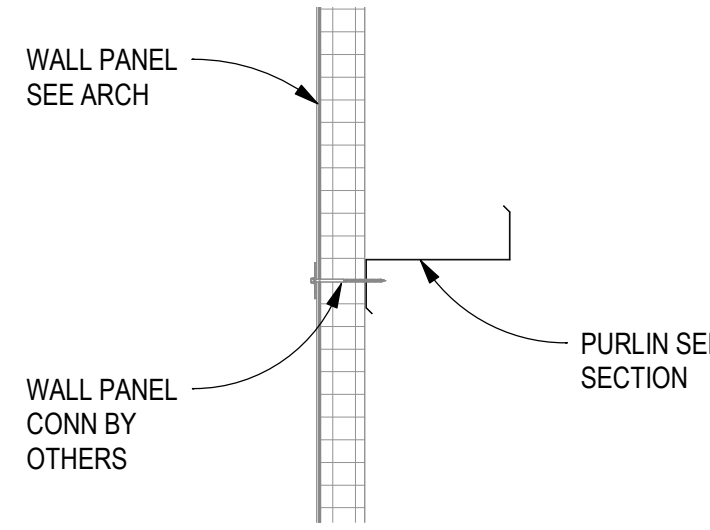
A5 WALL SECTION
SCALE: 1/4" = 1'-0"



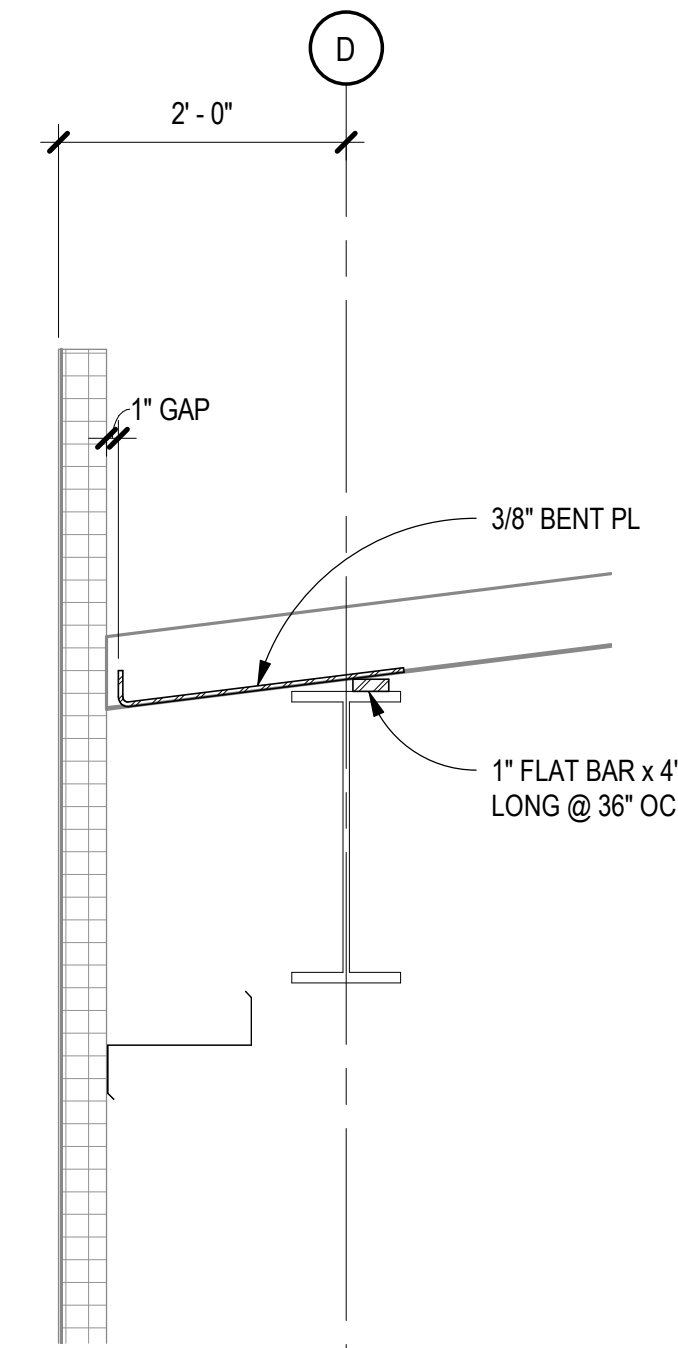
A6 WALL SECTION
SCALE: 1/4" = 1'-0"



A7 WALL SECTION
SCALE: 1/4" = 1'-0"



C4 DETAIL
SCALE: 3/4" = 1'-0"



C7 DETAIL
SCALE: 3/4" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
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SHEET TITLE

**BUILDING
SECTIONS**

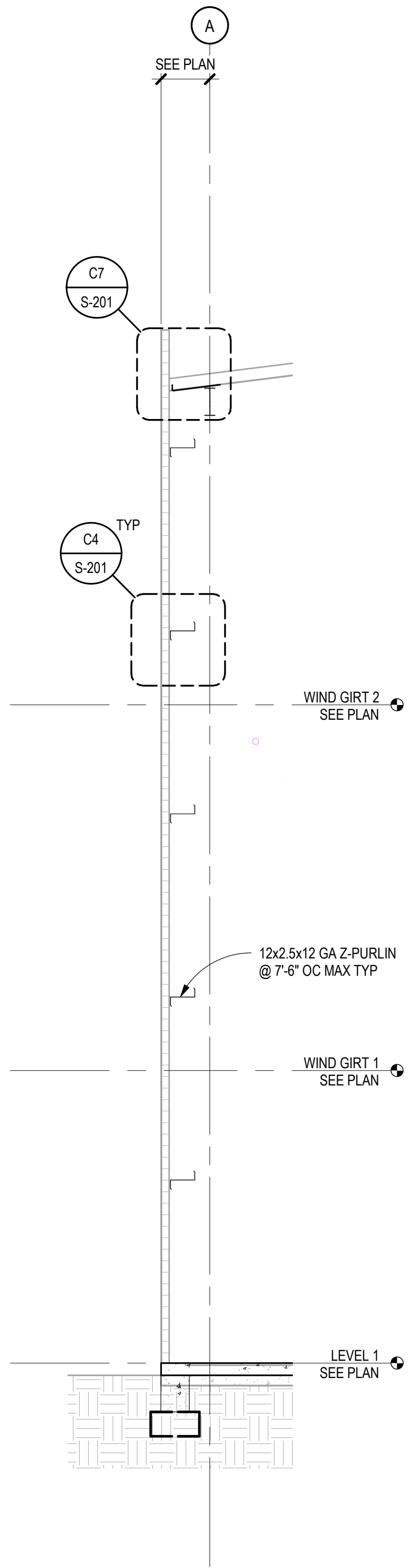
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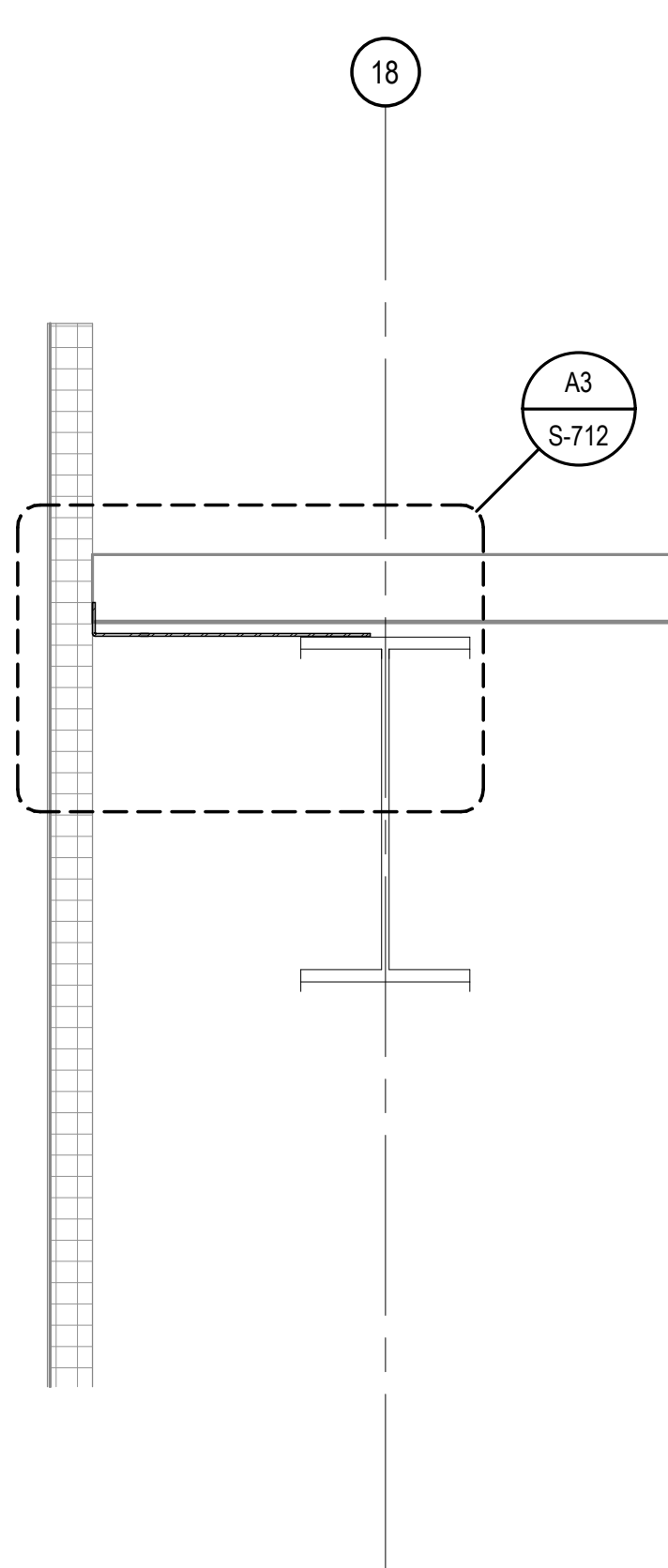
Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt

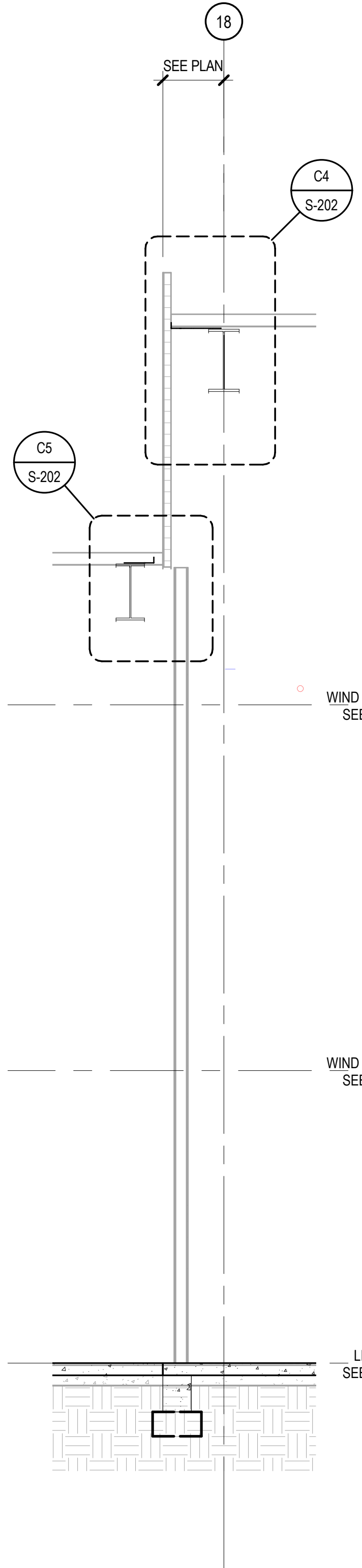
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D
C
B
A



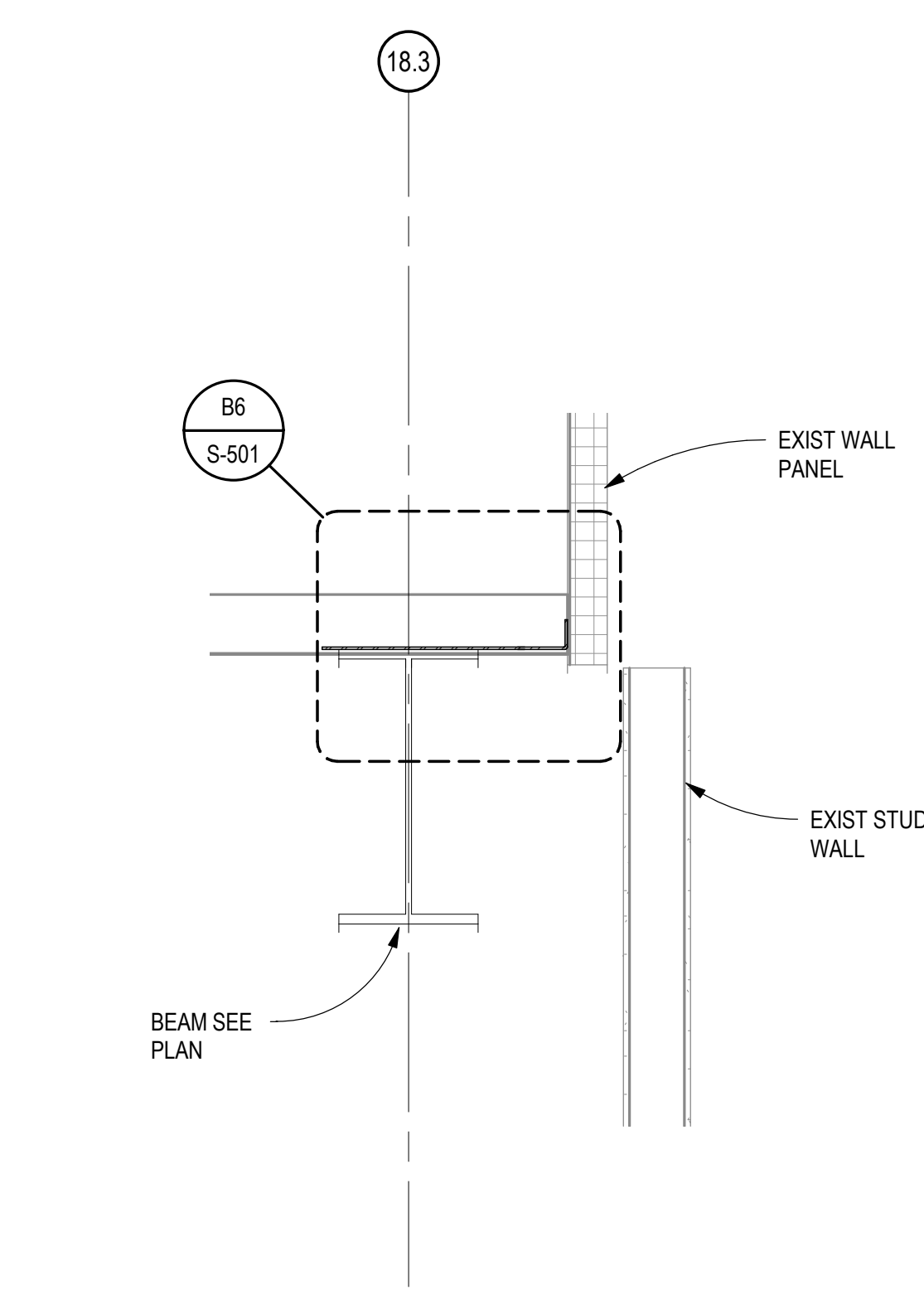
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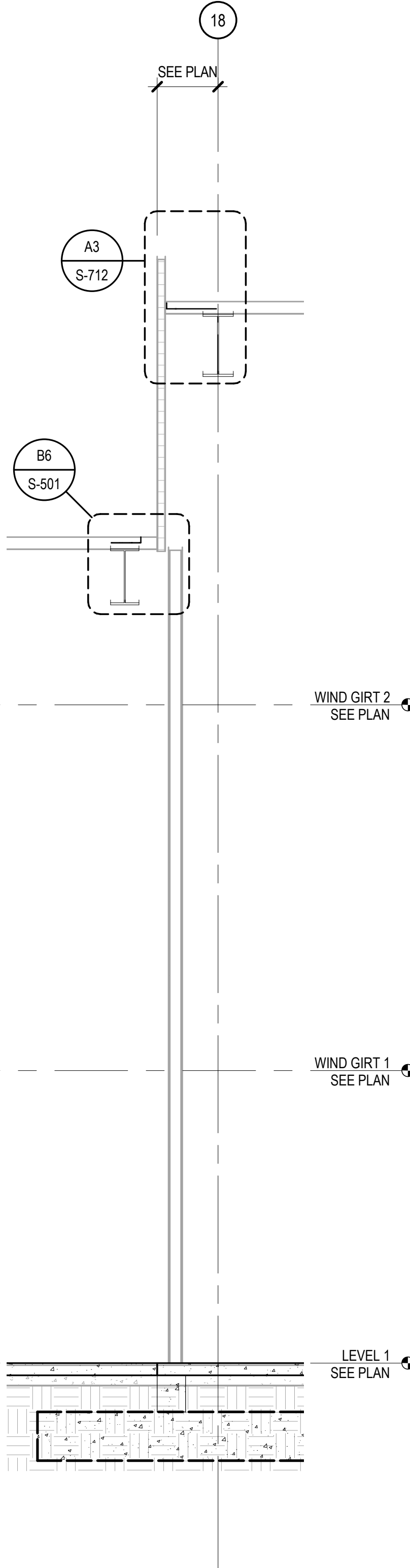
C4 DETAIL
SCALE: 3/4" = 1'-0"



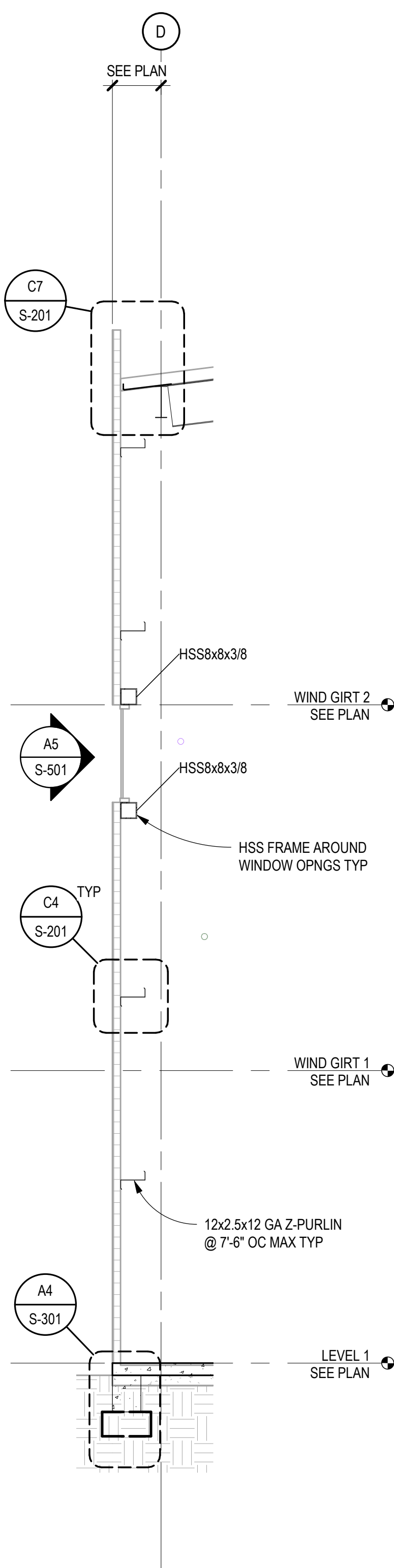
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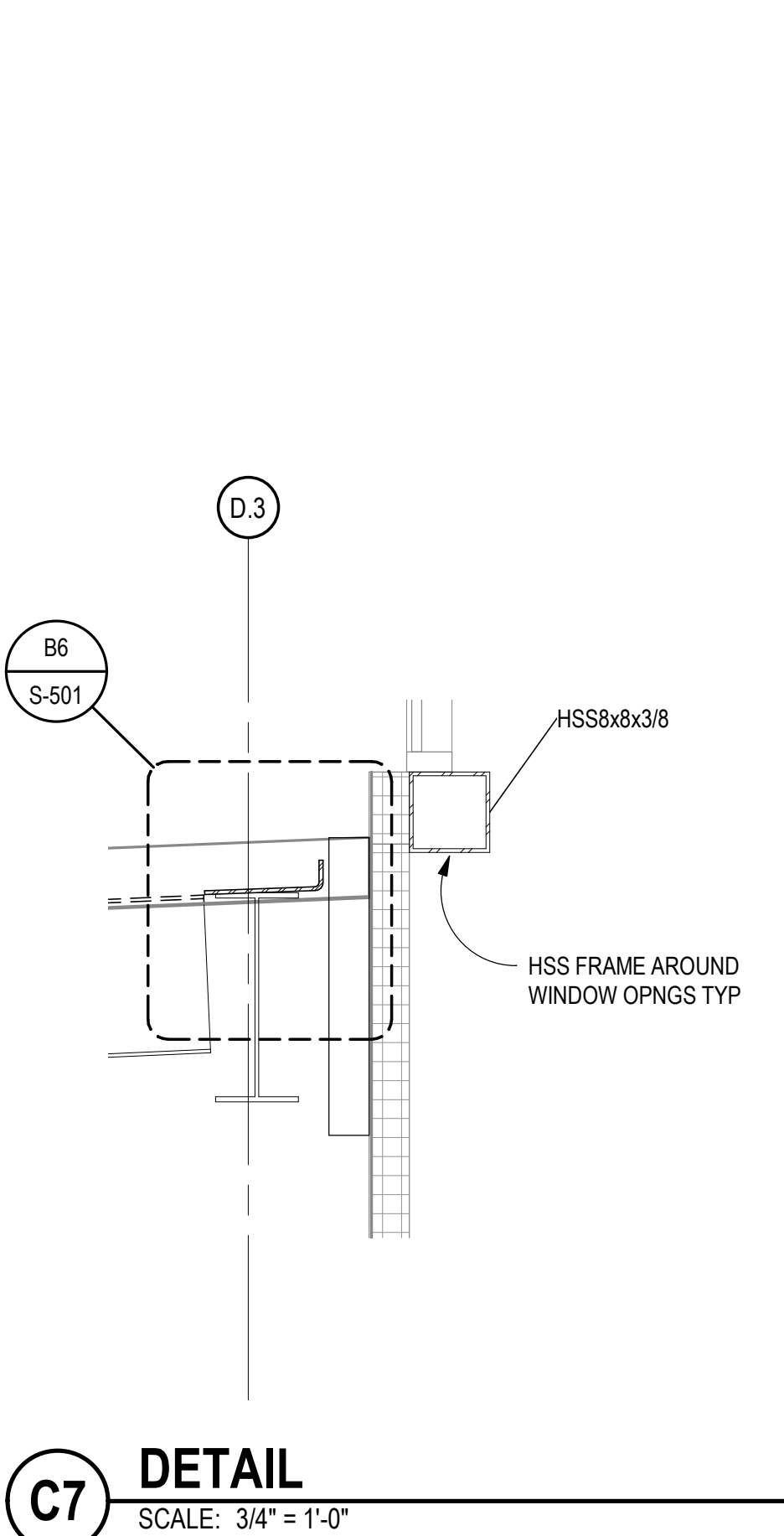
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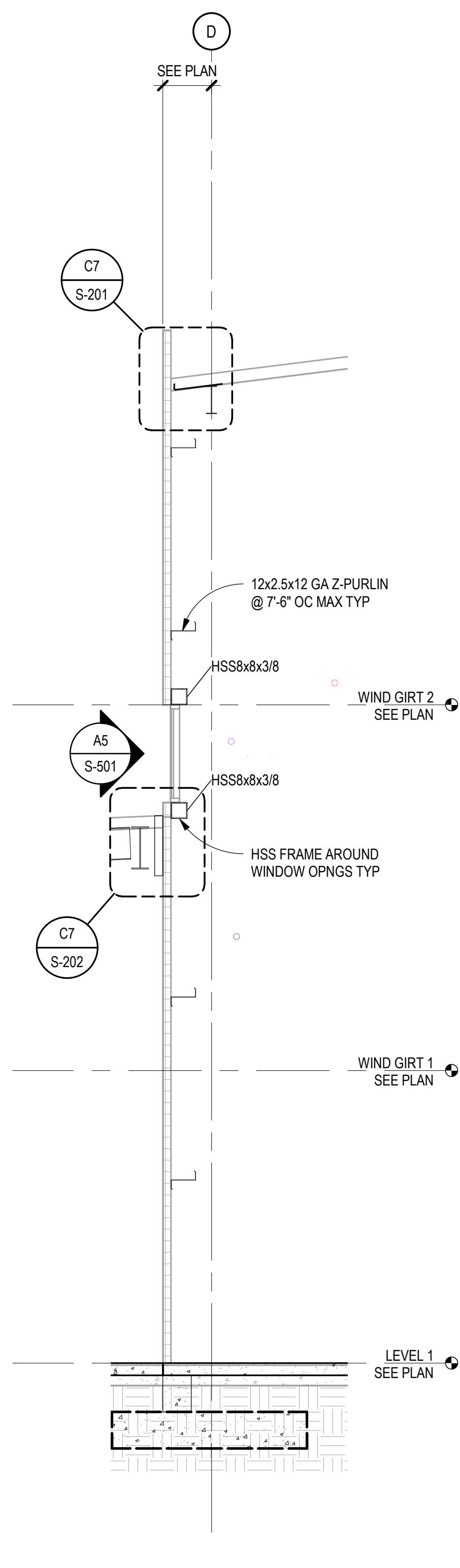
A5 Section 26
SCALE: 1/4" = 1'-0"



A6 WALL SECTION
SCALE: 1/4" = 1'-0"



C7 DETAIL
SCALE: 3/4" = 1'-0"



A7 WALL SECTION
SCALE: 1/4" = 1'-0"

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
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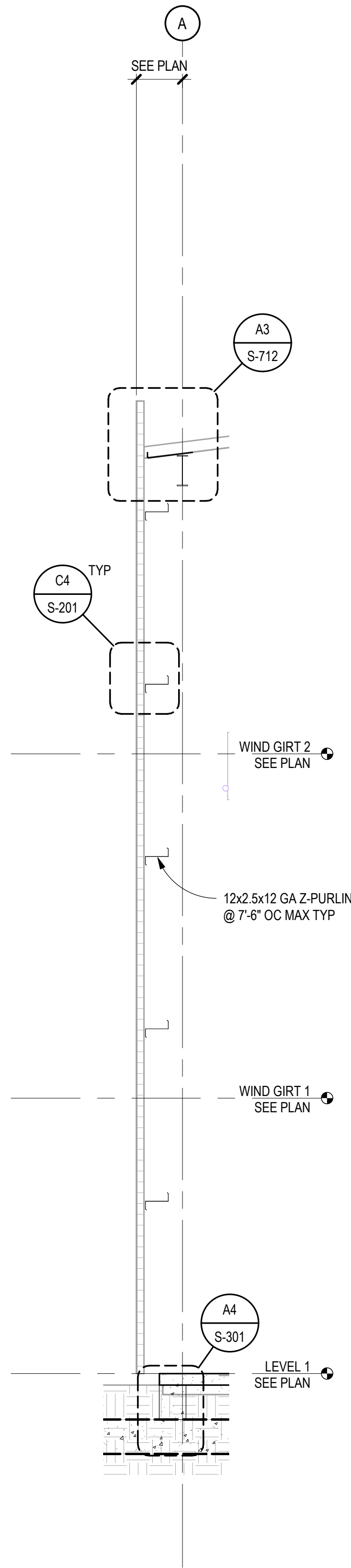
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BUILDING SECTIONS

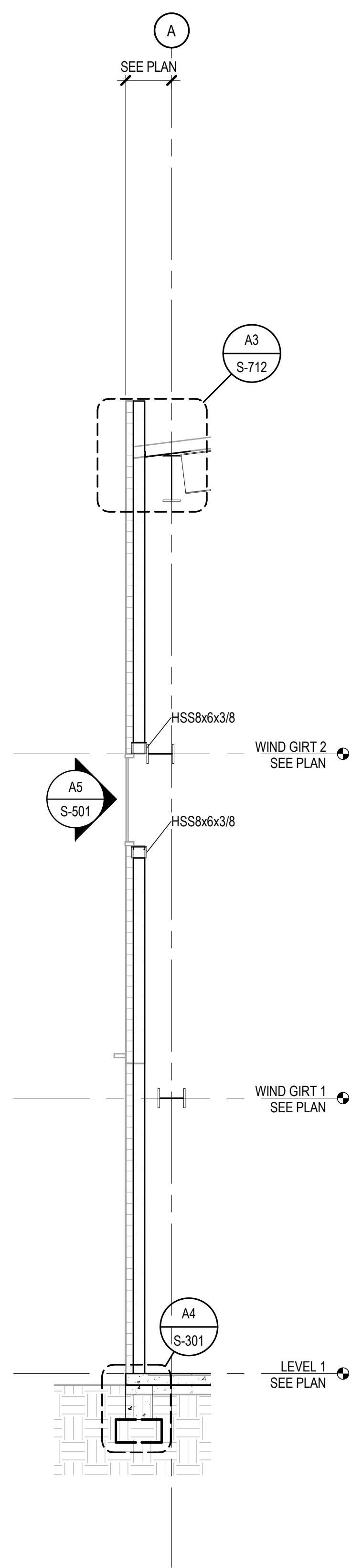
SHEET NUMBER
S-202
Sequence of

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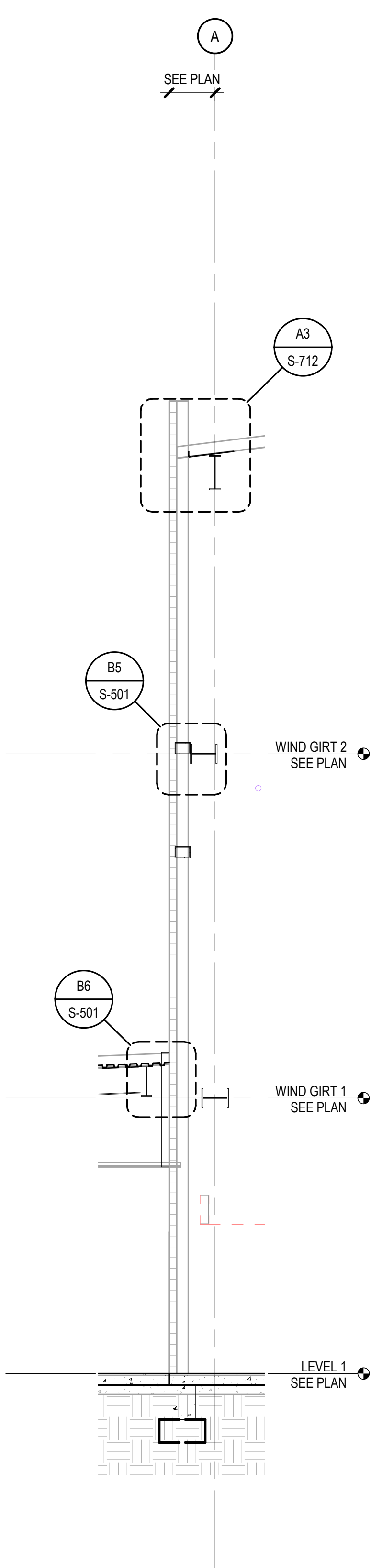
A2 WALL SECTION
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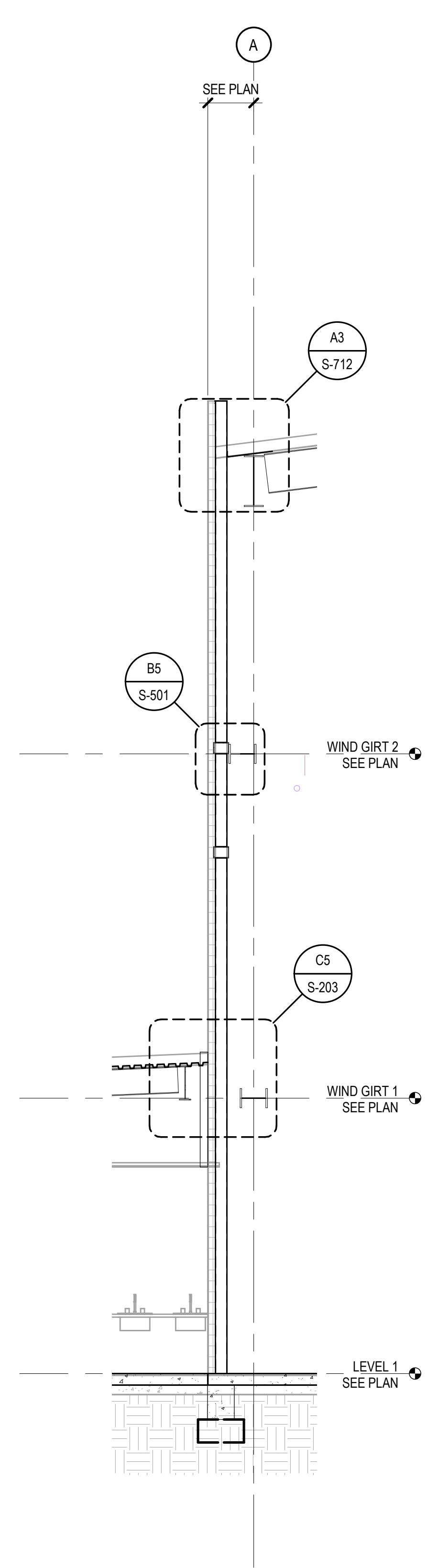
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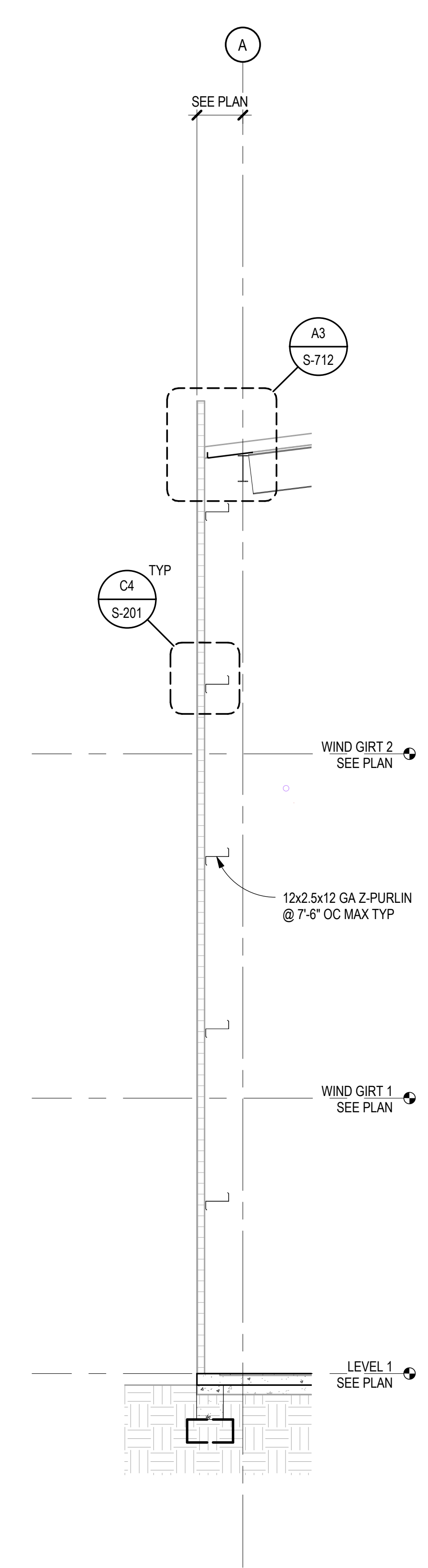
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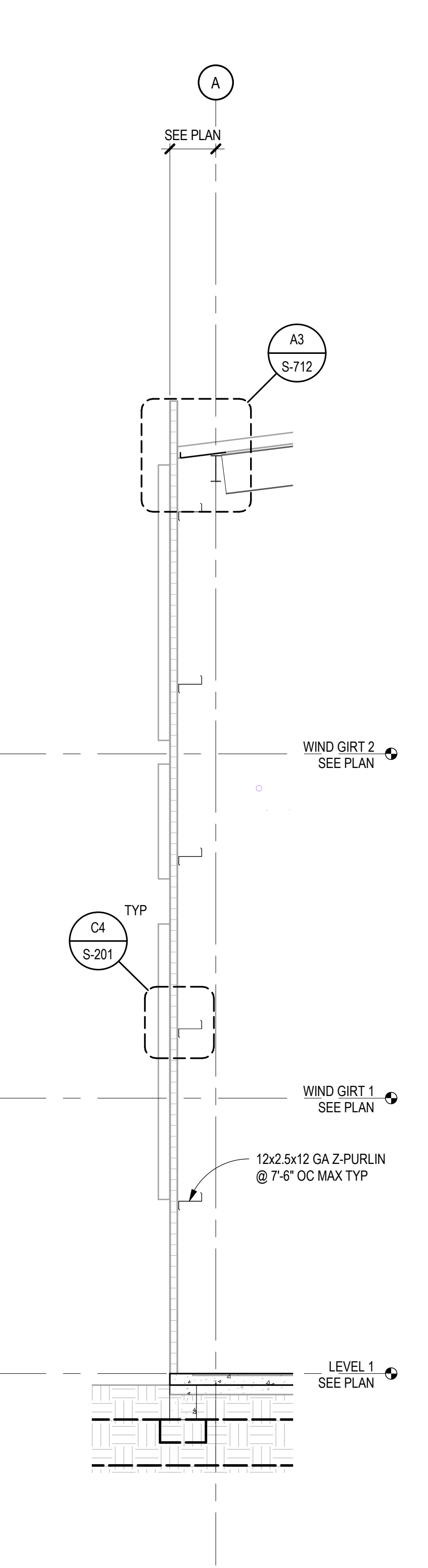
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SCALE: 1/4" = 1'-0"



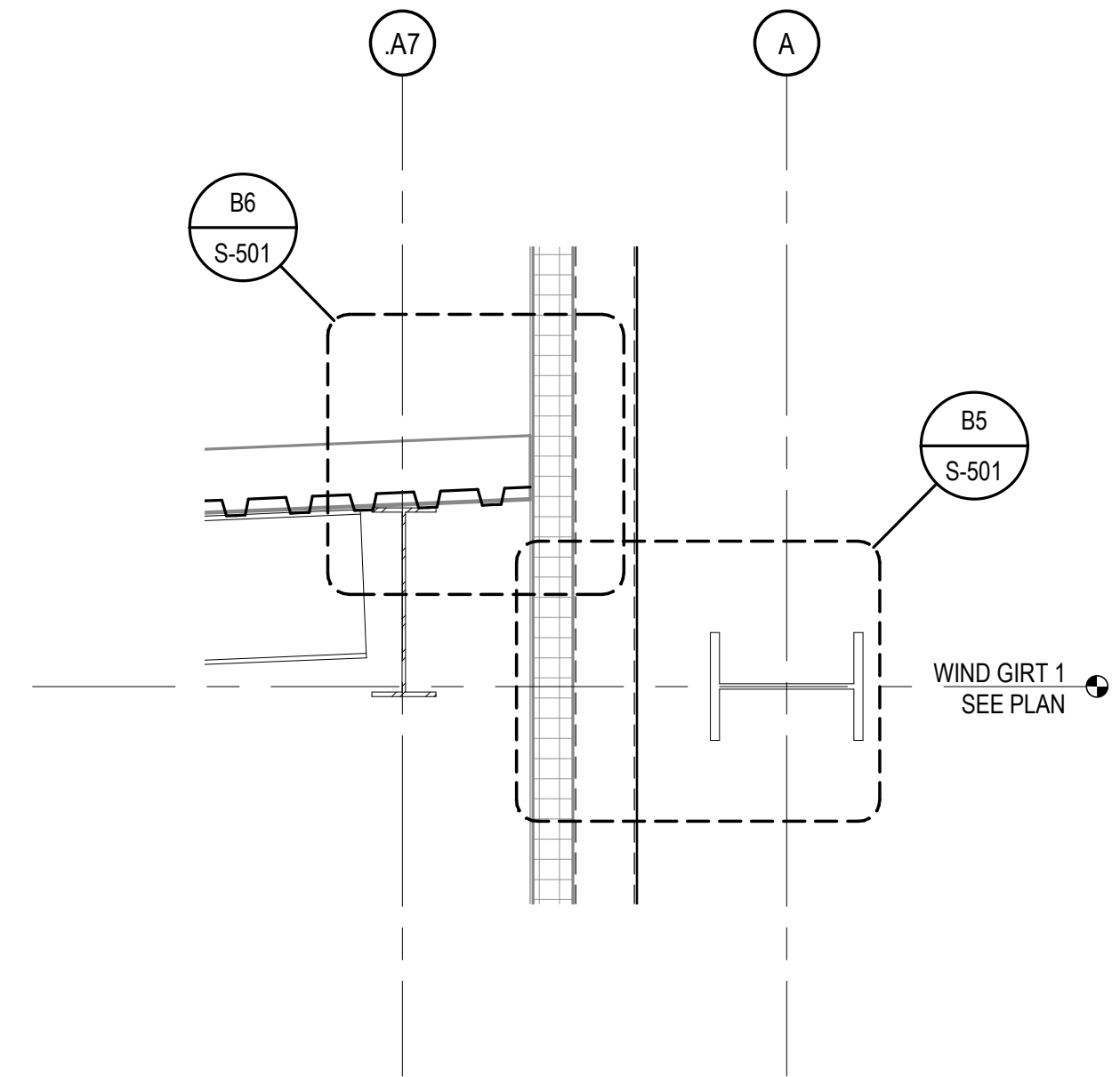
A6 WALL SECTION
SCALE: 1/4" = 1'-0"



A7 WALL SECTION
SCALE: 1/4" = 1'-0"



C5 DETAIL
SCALE: 3/4" = 1'-0"



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

OWNER: NAVAJO NATION DEPARTMENT OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC

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(505) 344-4080

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SHEET TITLE

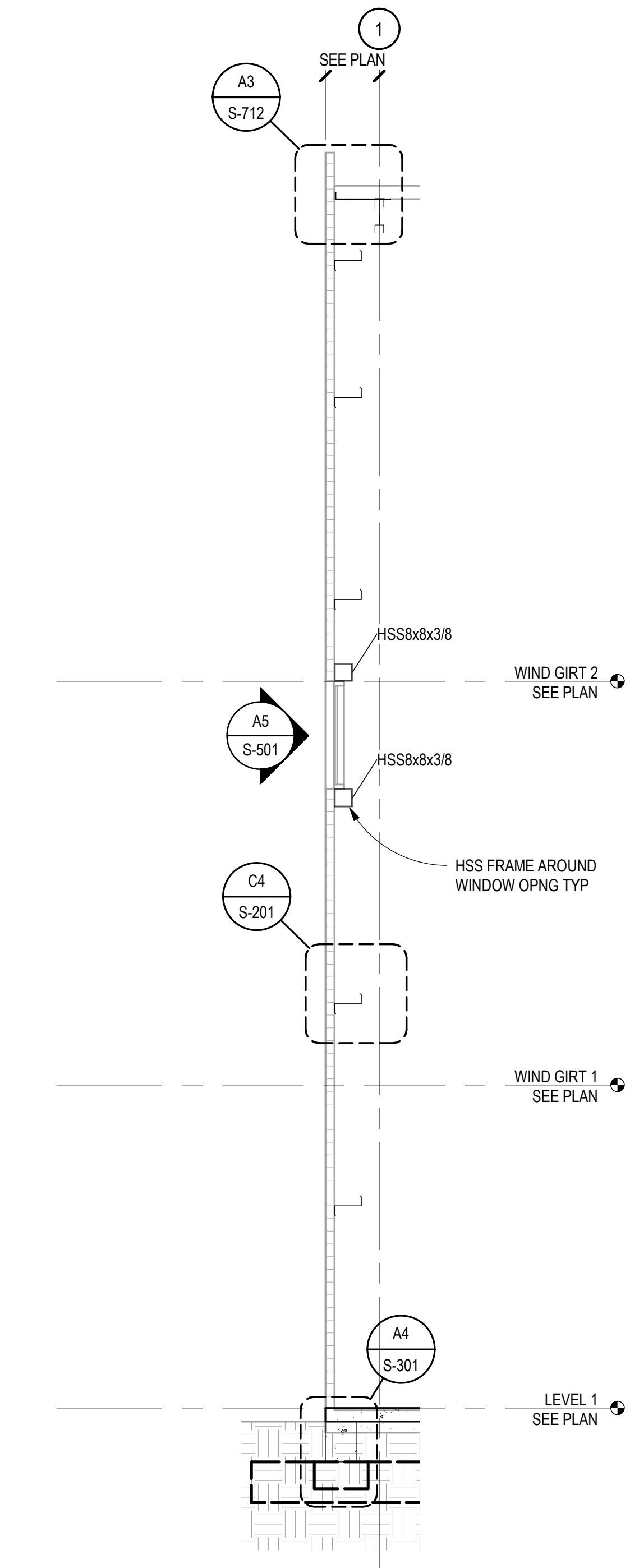
BUILDING SECTIONS

SHEET NUMBER

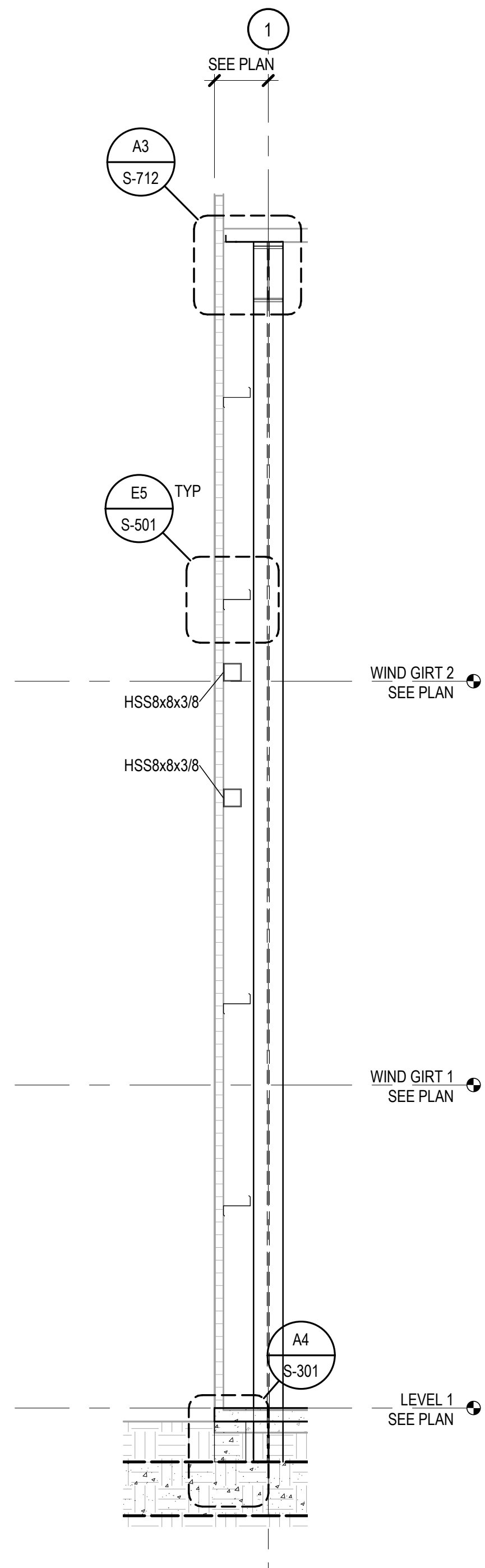
S-203

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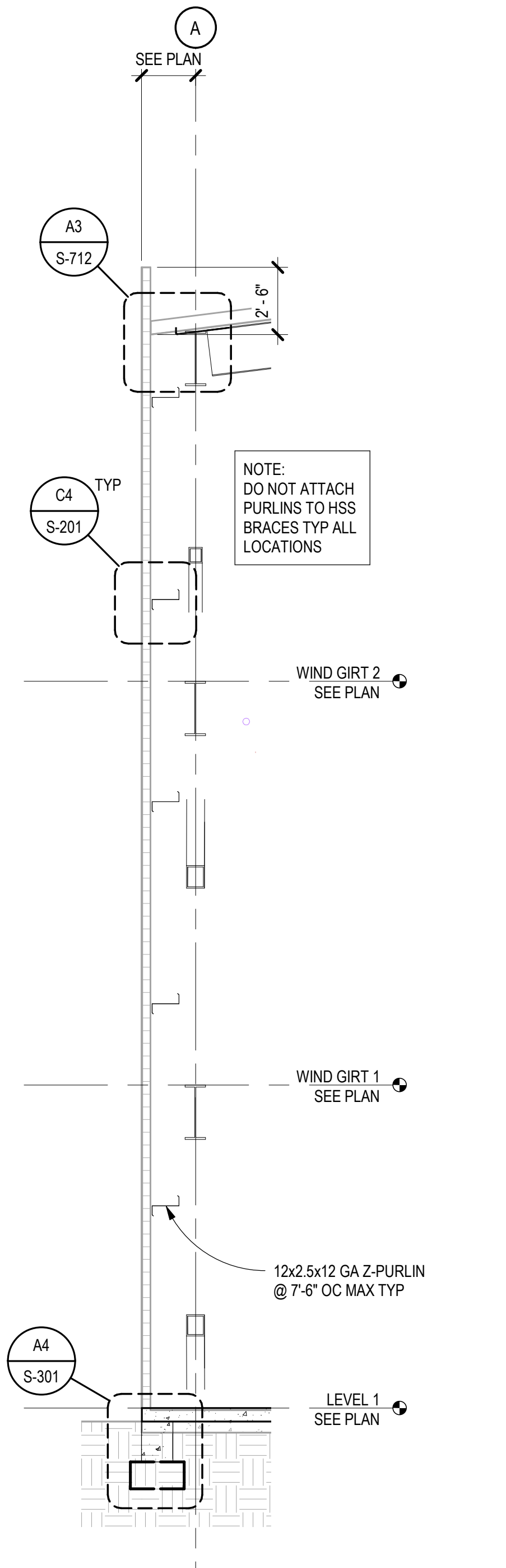
BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



A4 WALL SECTION
SCALE: 1/4" = 1'-0"



A5 WALL SECTION
SCALE: 1/4" = 1'-0"



A6 WALL SECTION
SCALE: 1/4" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
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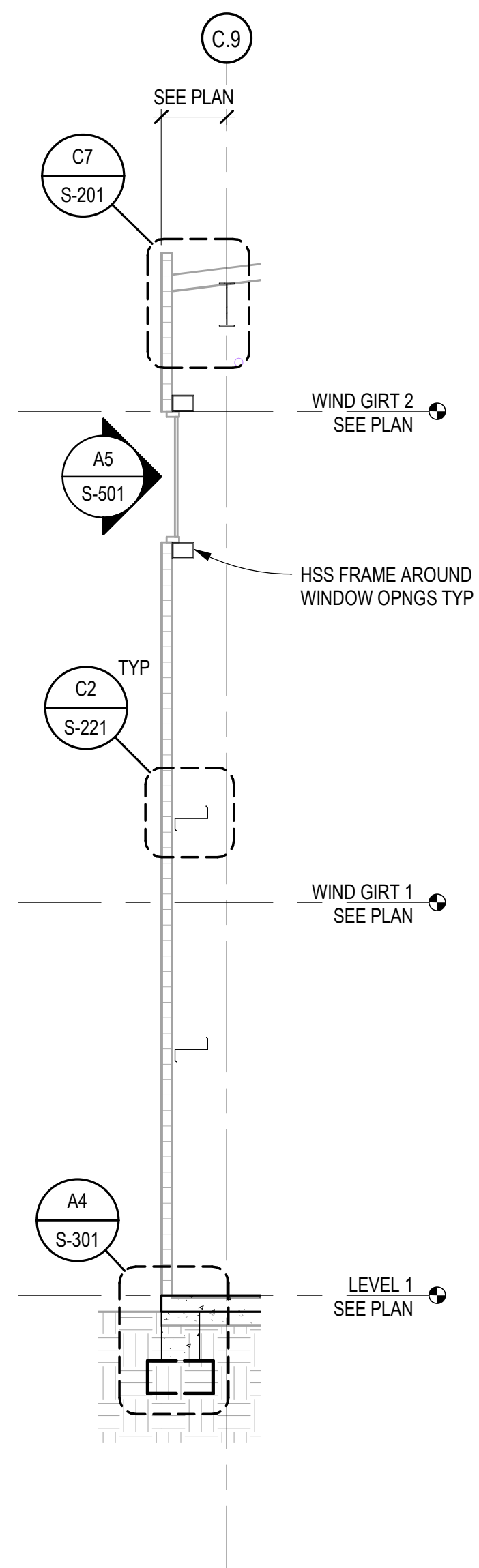
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**BUILDING
SECTIONS**

SHEET NUMBER

S-204

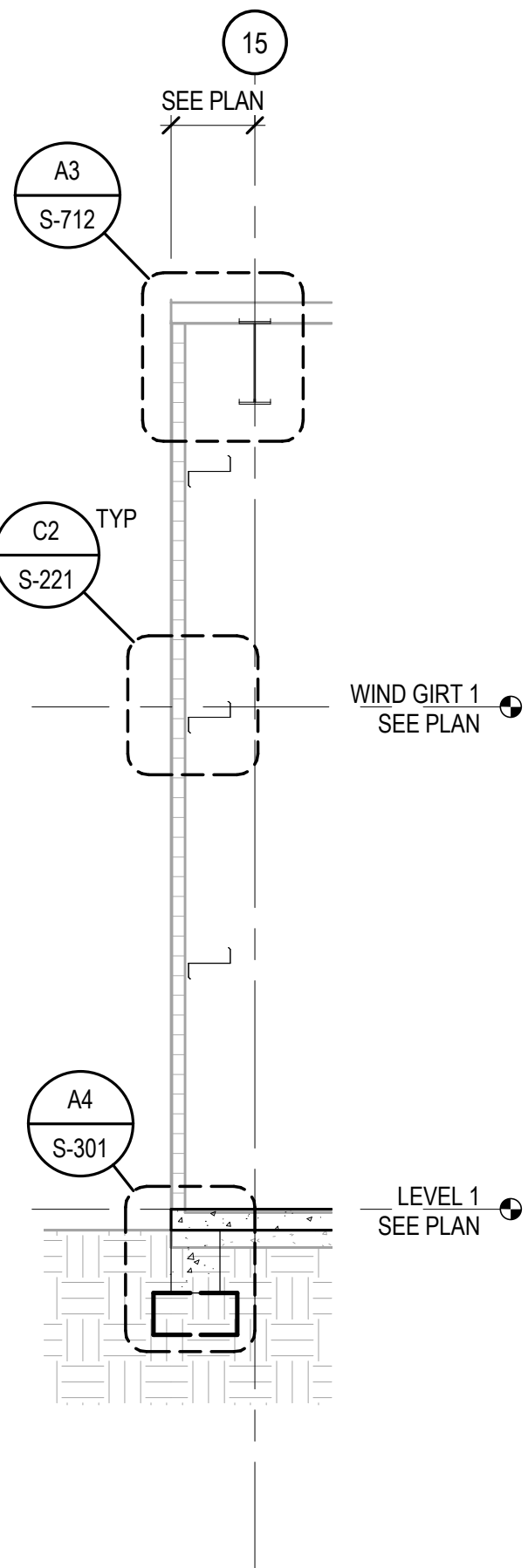
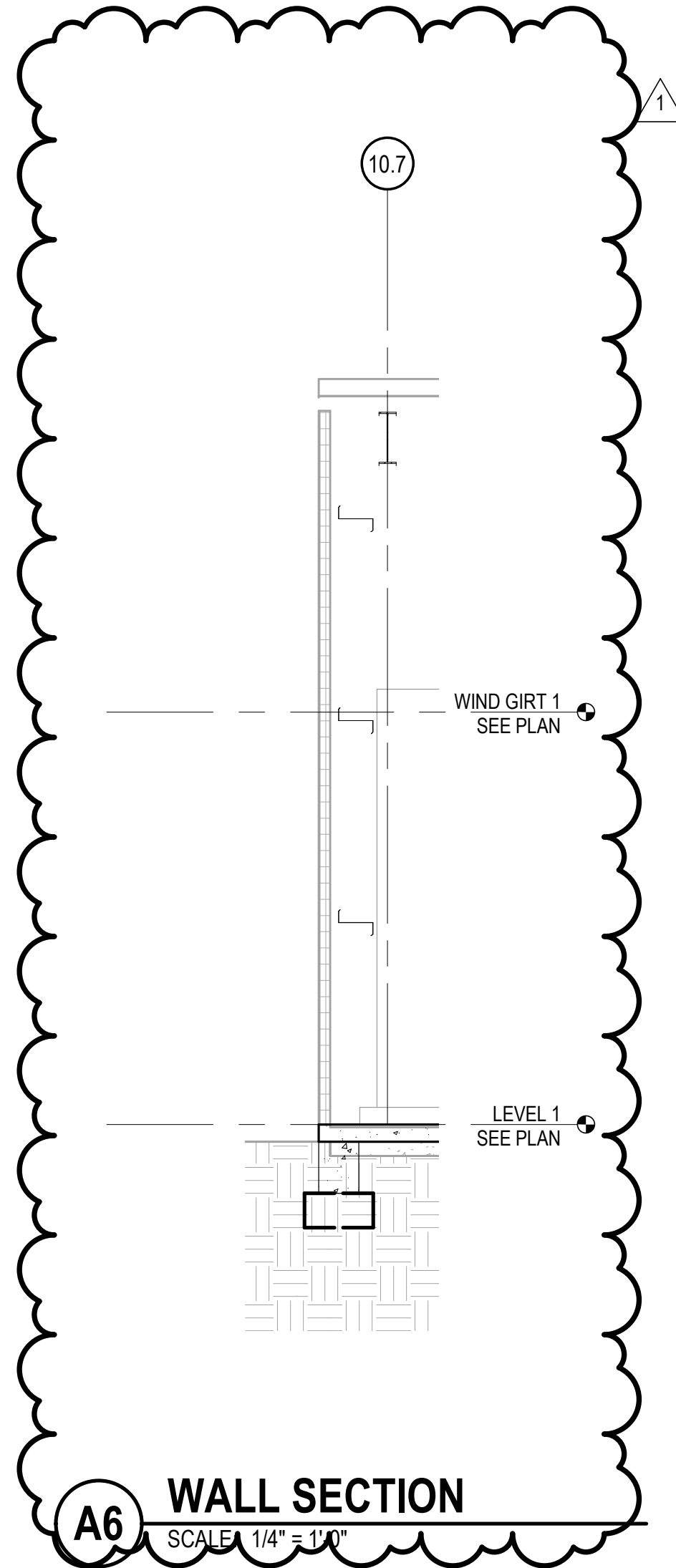
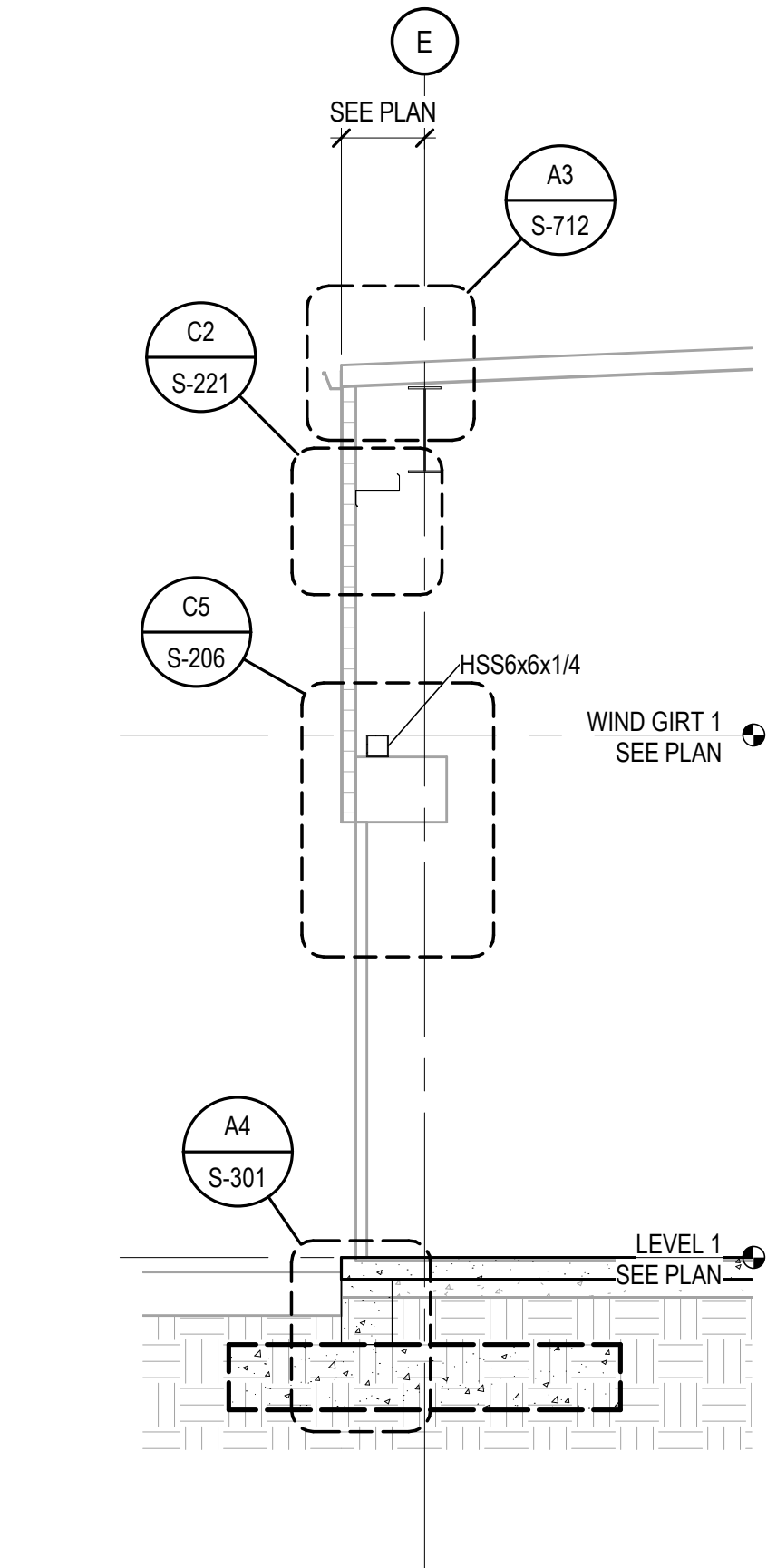
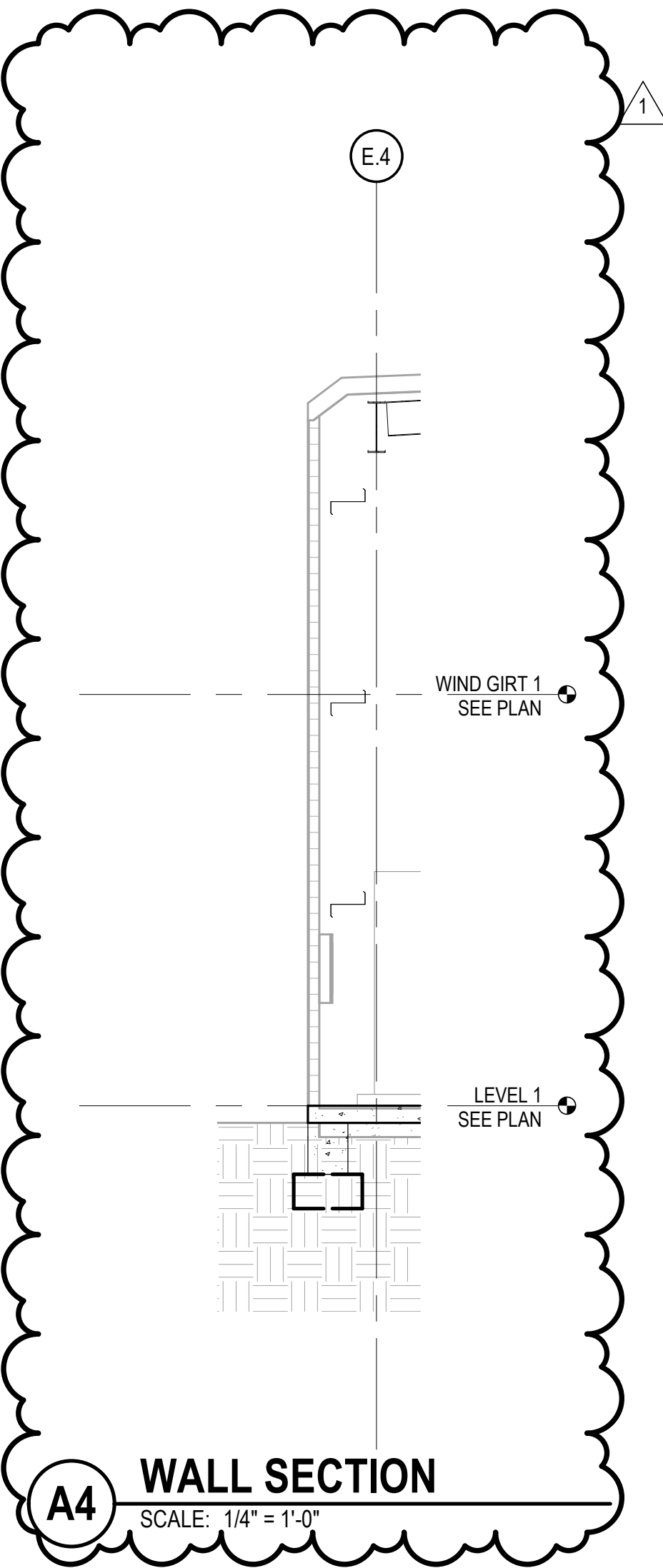
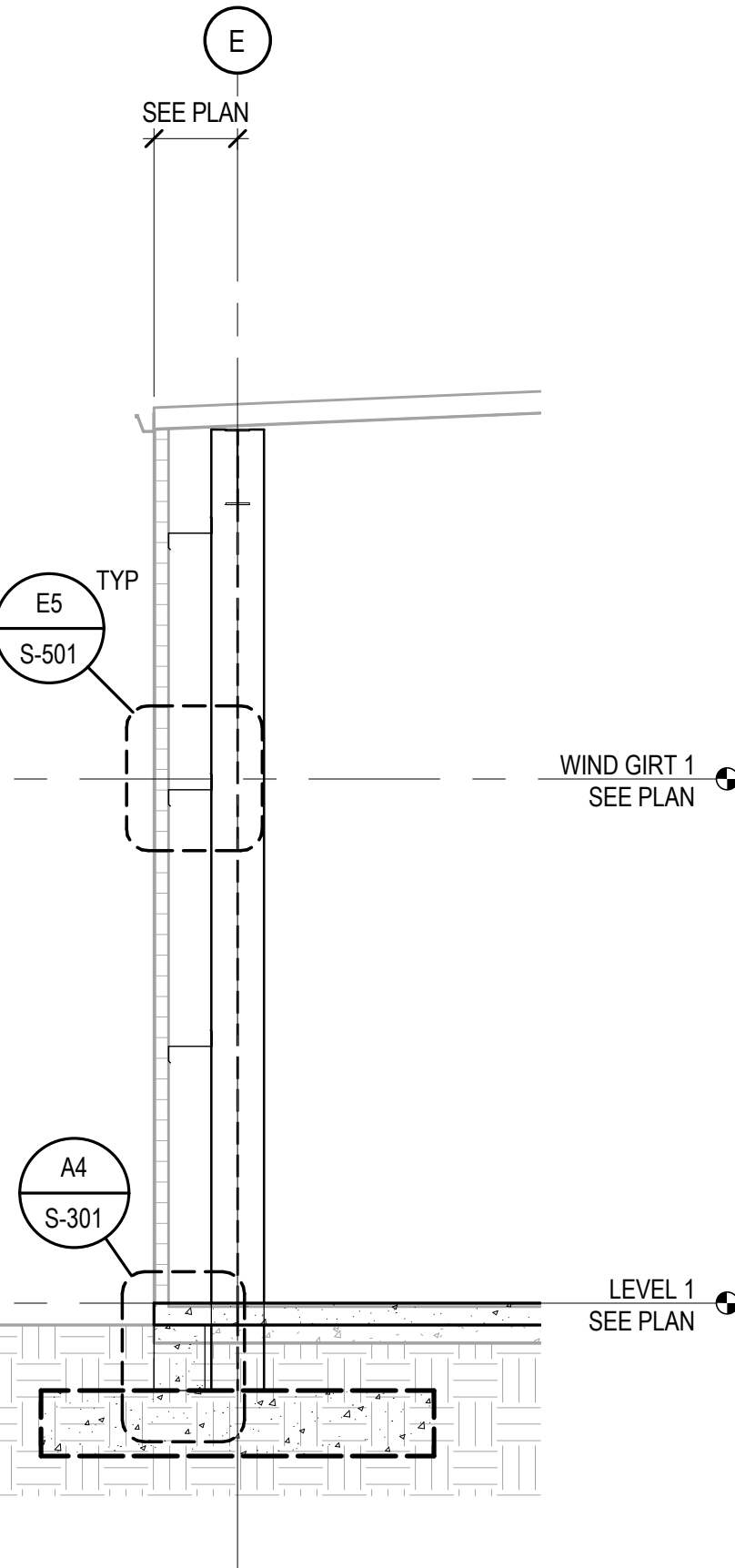
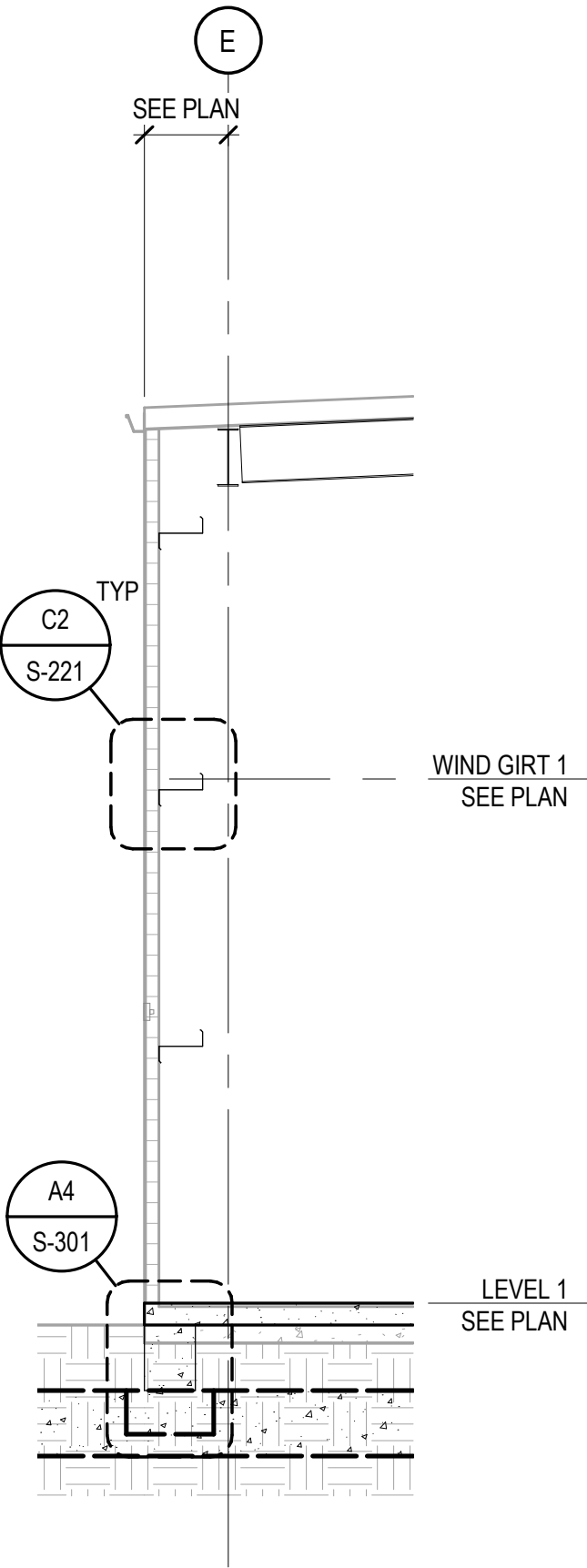
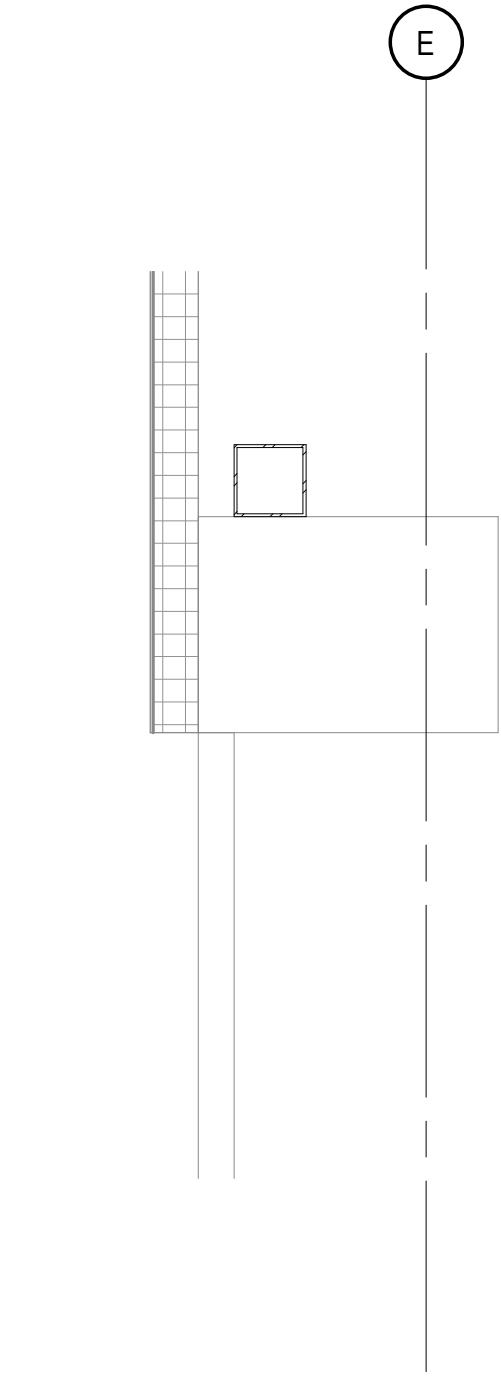
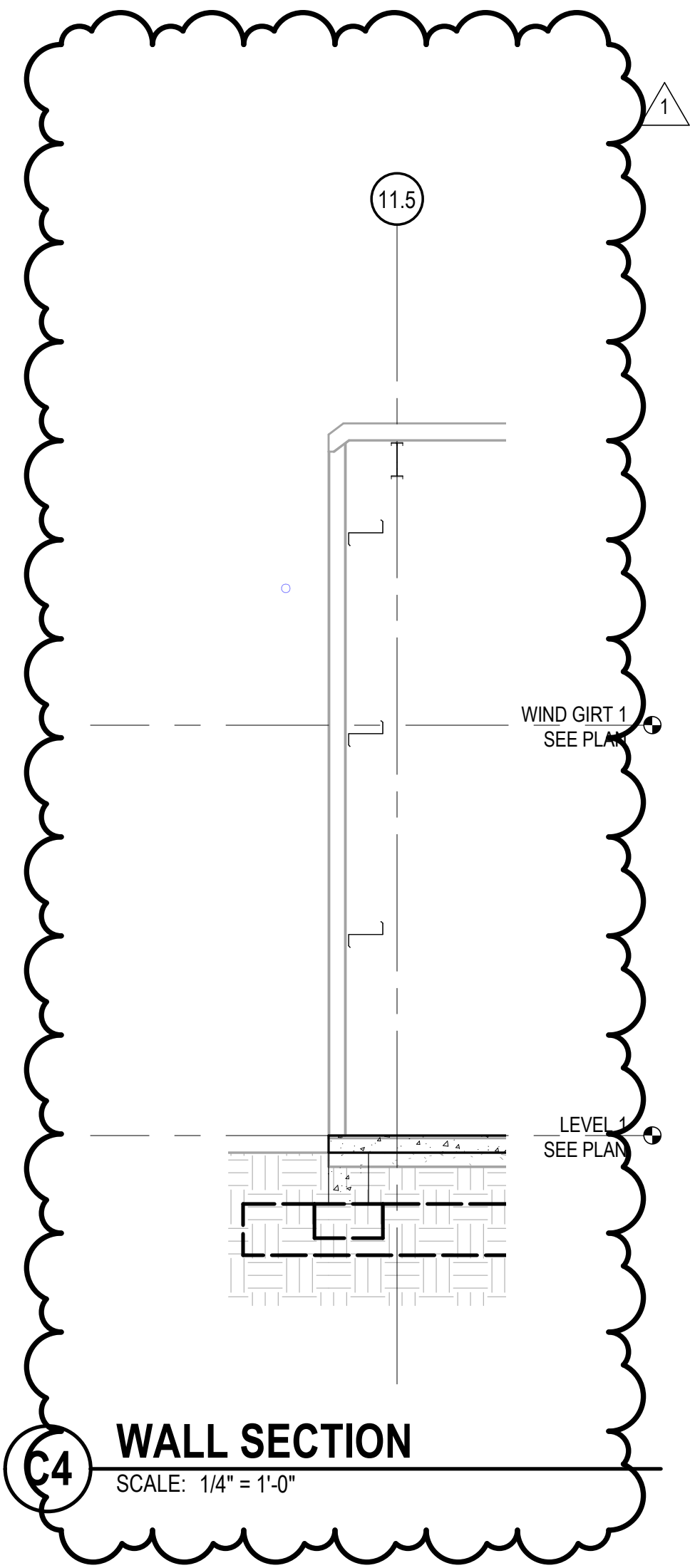
Sequence of



A6 WALL SECTION
SCALE: 1/4" = 1'-0"

3/23/2022 6:30:49 PM

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

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SHEET TITLE

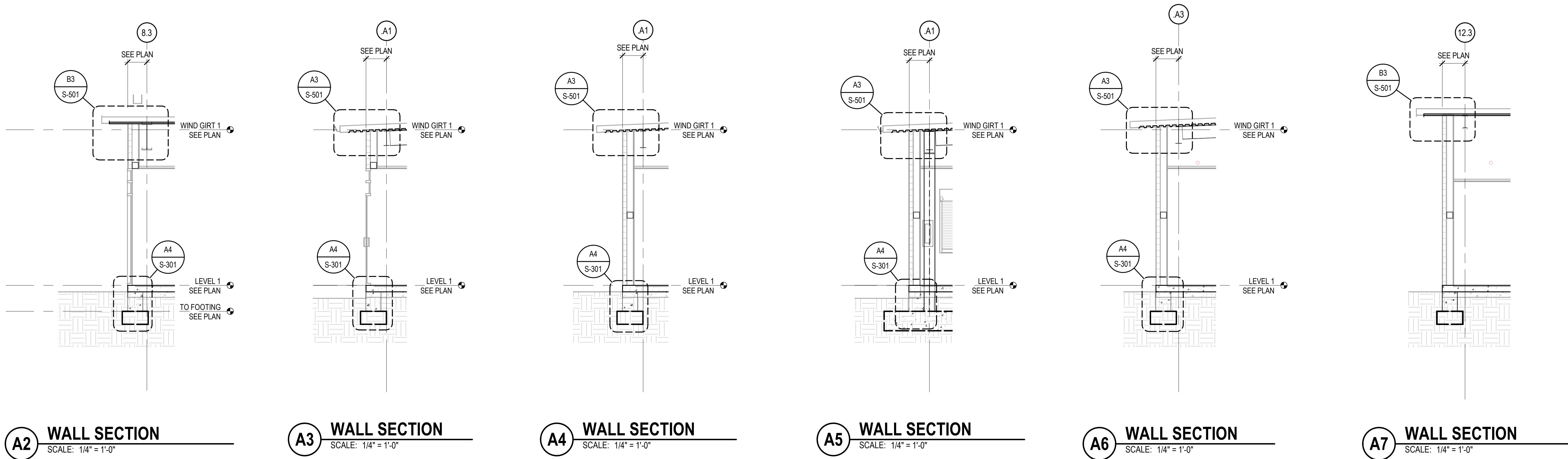
**MECHANICAL
BUILDING
SECTIONS**

SHEET NUMBER

S-206

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
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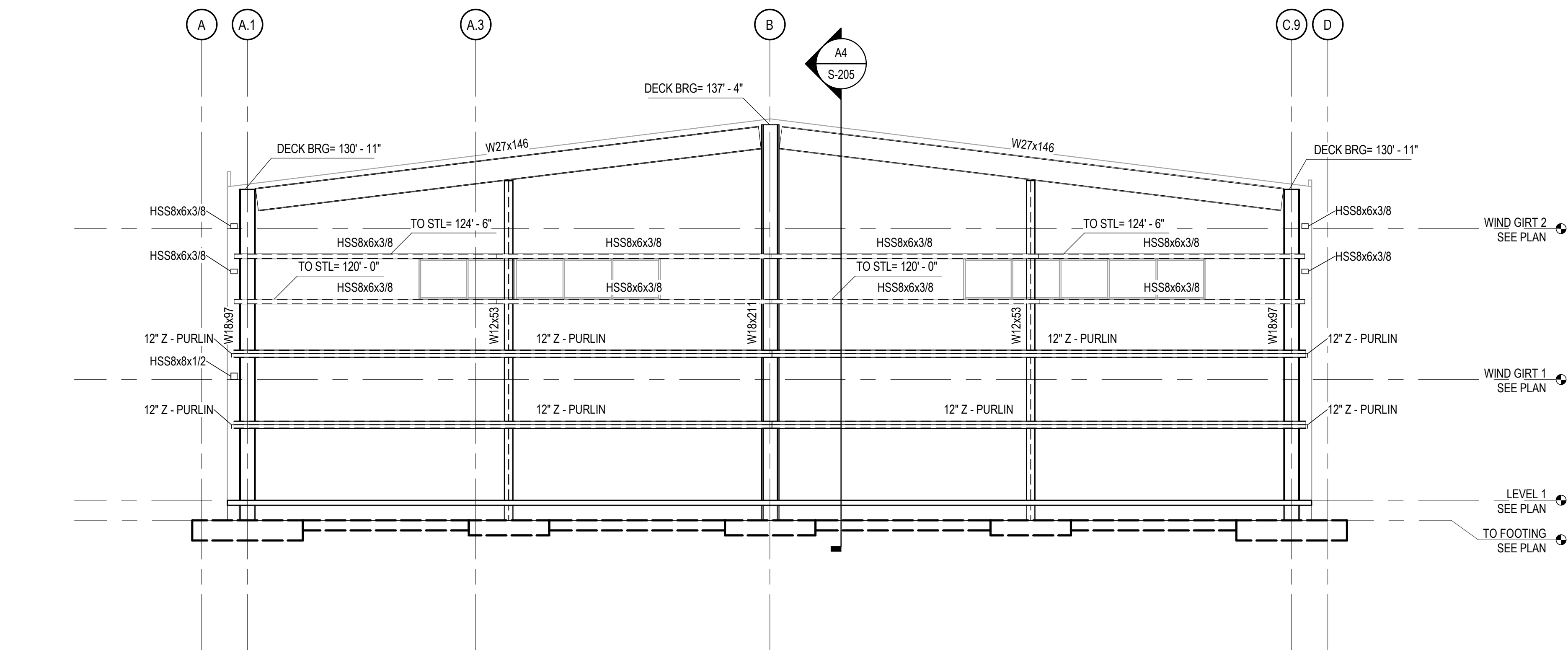
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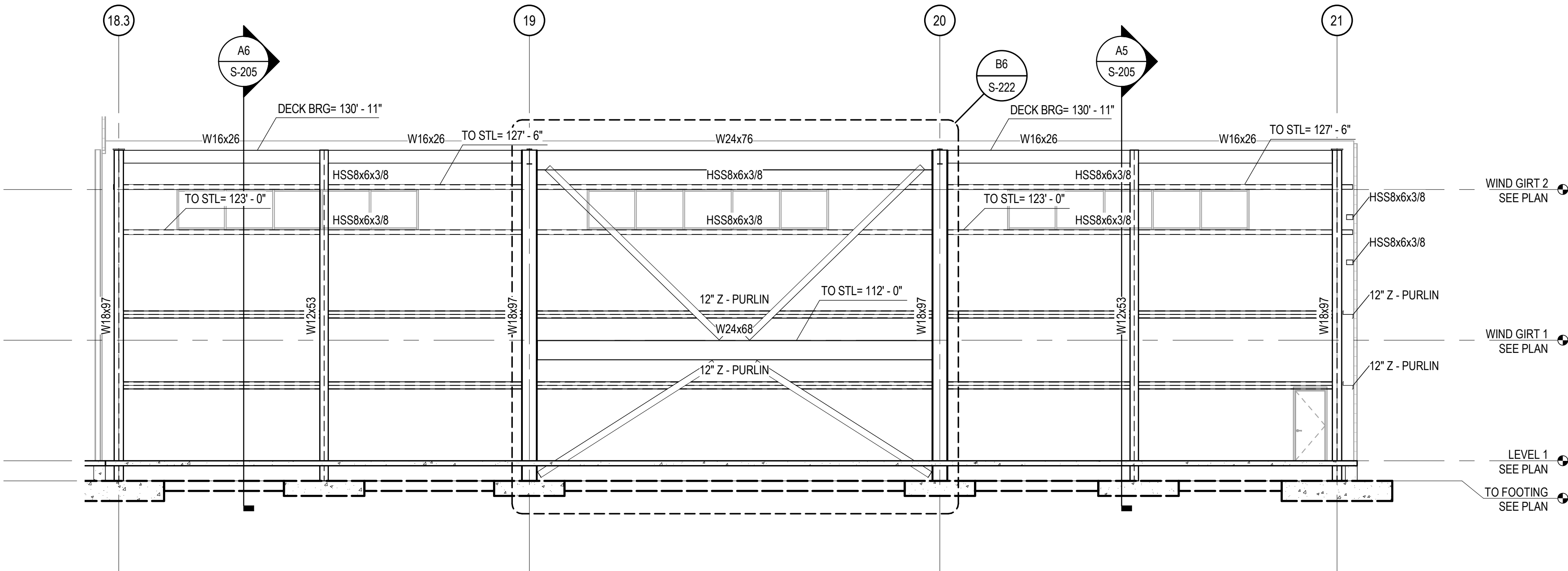
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ADMINISTRATION BUILDING SECTIONS

SHEET NUMBER
S-207
Sequence of

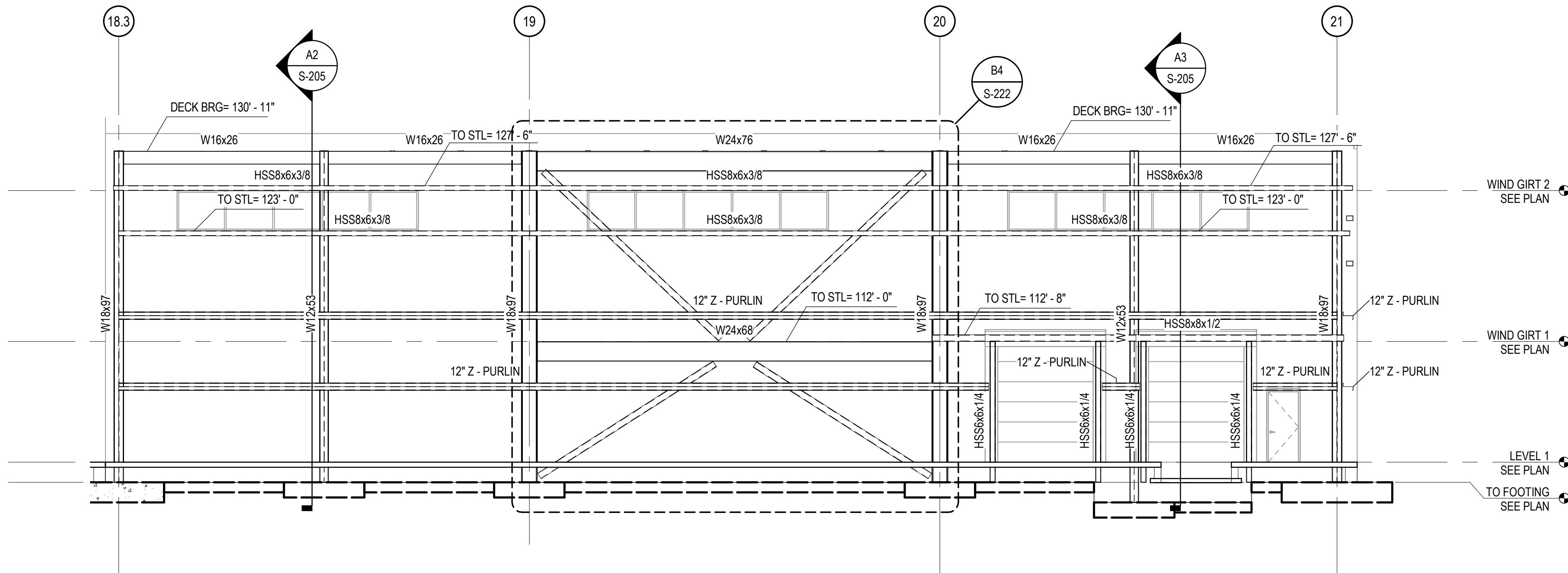
BIM 360://Church Rock Phase II Factory/CR Factory STRUC.rvt



E3 WAREHOUSE FRAMING ELEVATION GRIDLINE 21
SCALE: 1/8" = 1'-0"



C3 WAREHOUSE FRAMING ELEVATION GRIDLINE C.9
SCALE: 1/8" = 1'-0"



A4 WAREHOUSE FRAMING ELEVATION GRIDLINE A.1
SCALE: 1/8" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

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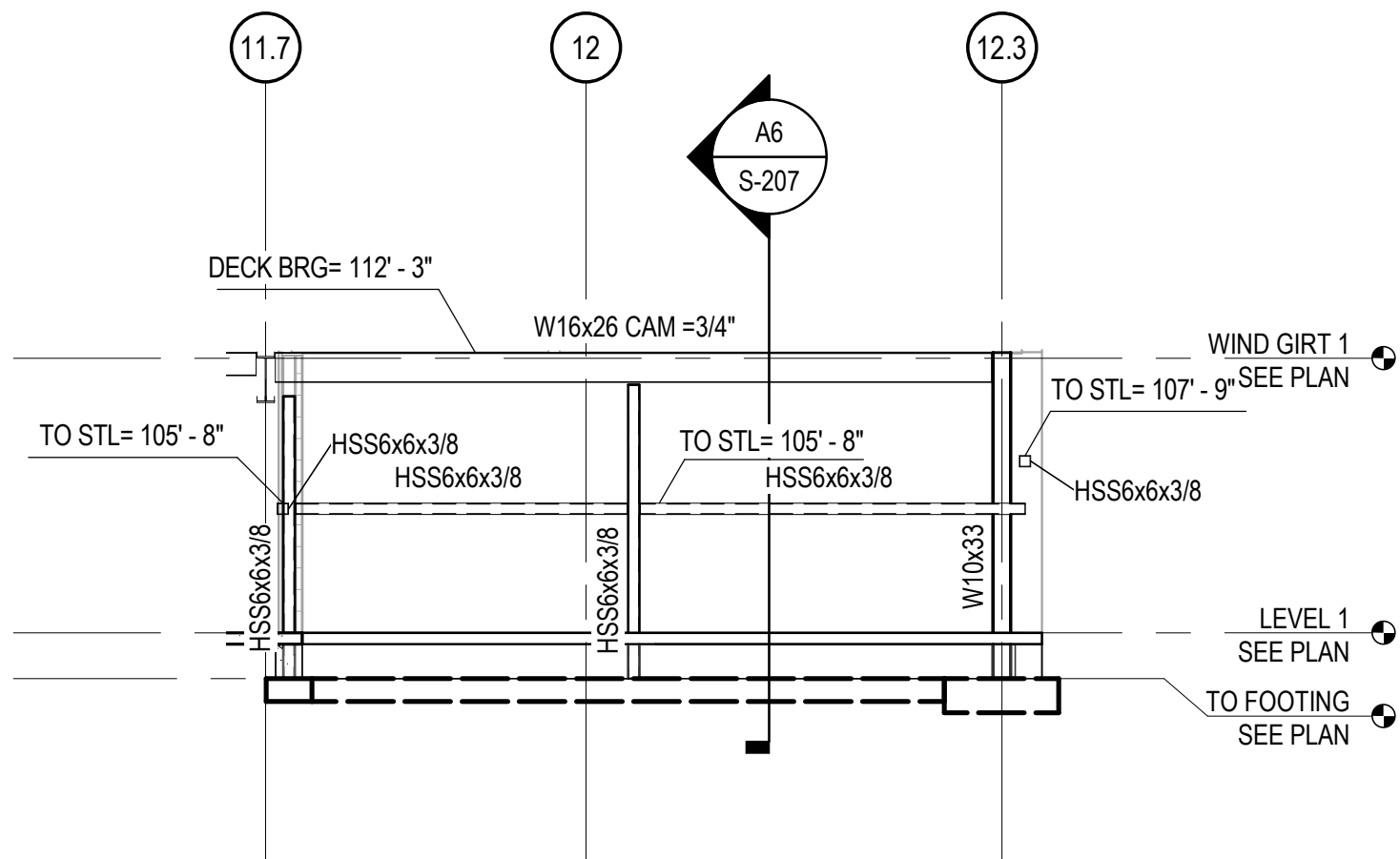
**FRAMING
ELEVATIONS**

SHEET NUMBER

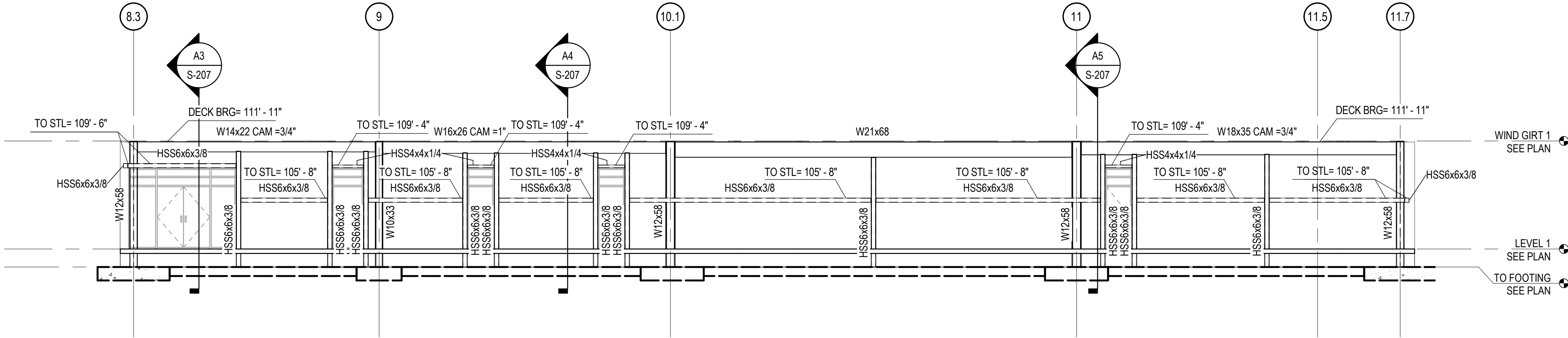
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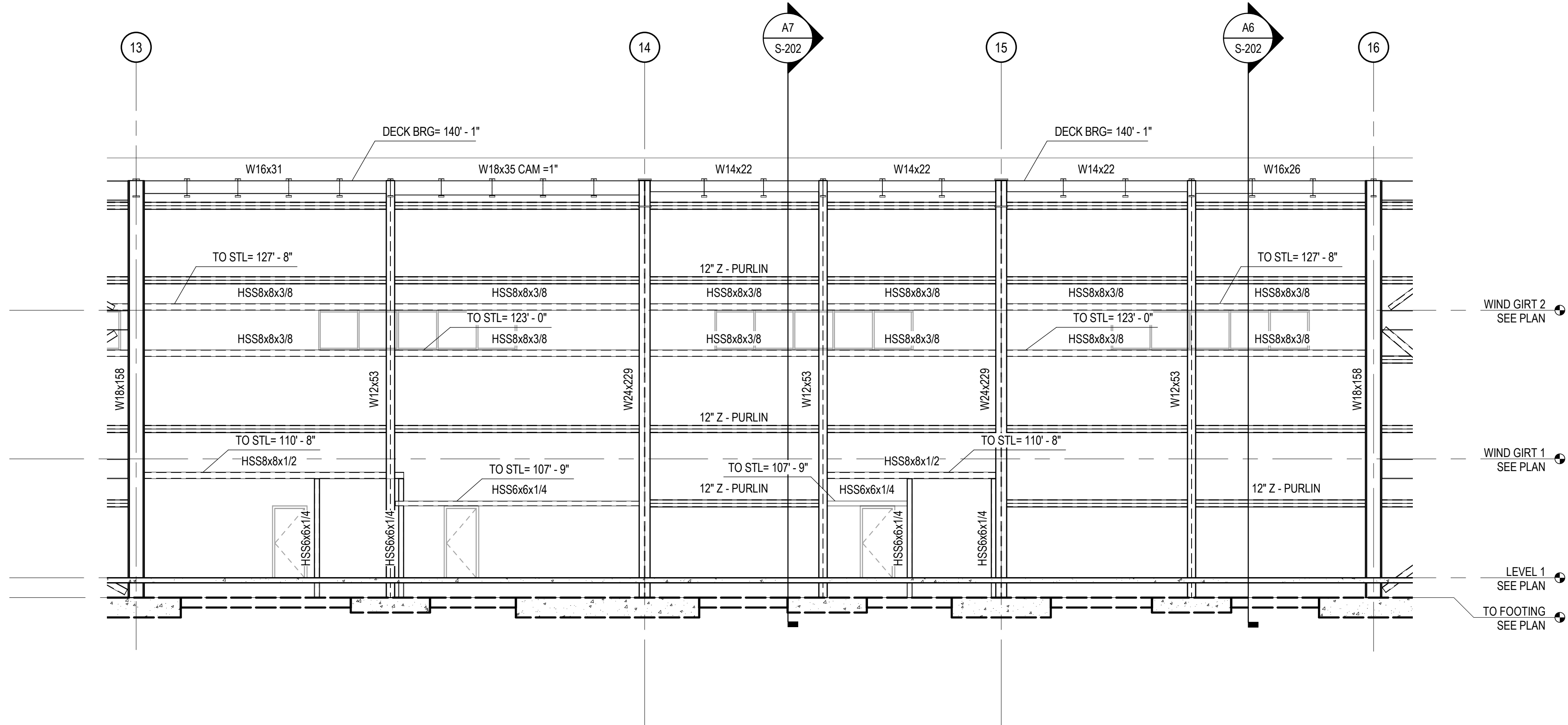
BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



A1 ADMIN BUILDING SOUTH ELEVATION GRIDLINE .A3
SCALE: 1/8" = 1'-0"



A3 ADMIN BUILDING SOUTH ELEVATION GRIDLINE .A1
SCALE: 1/8" = 1'-0"



B4 FRAMING ELEVATION GRIDLINE D1
SCALE: 1/8" = 1'-0"

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022
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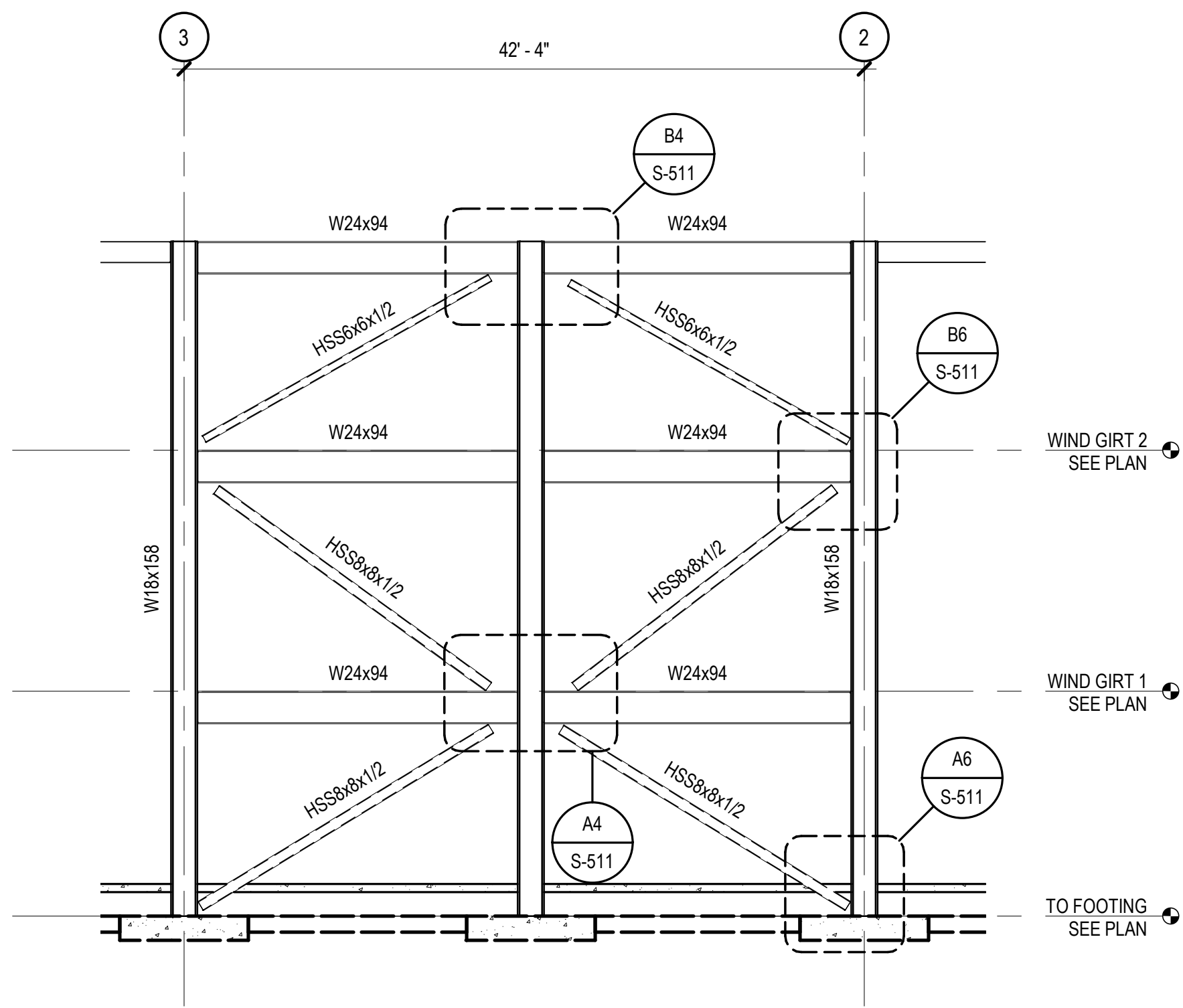
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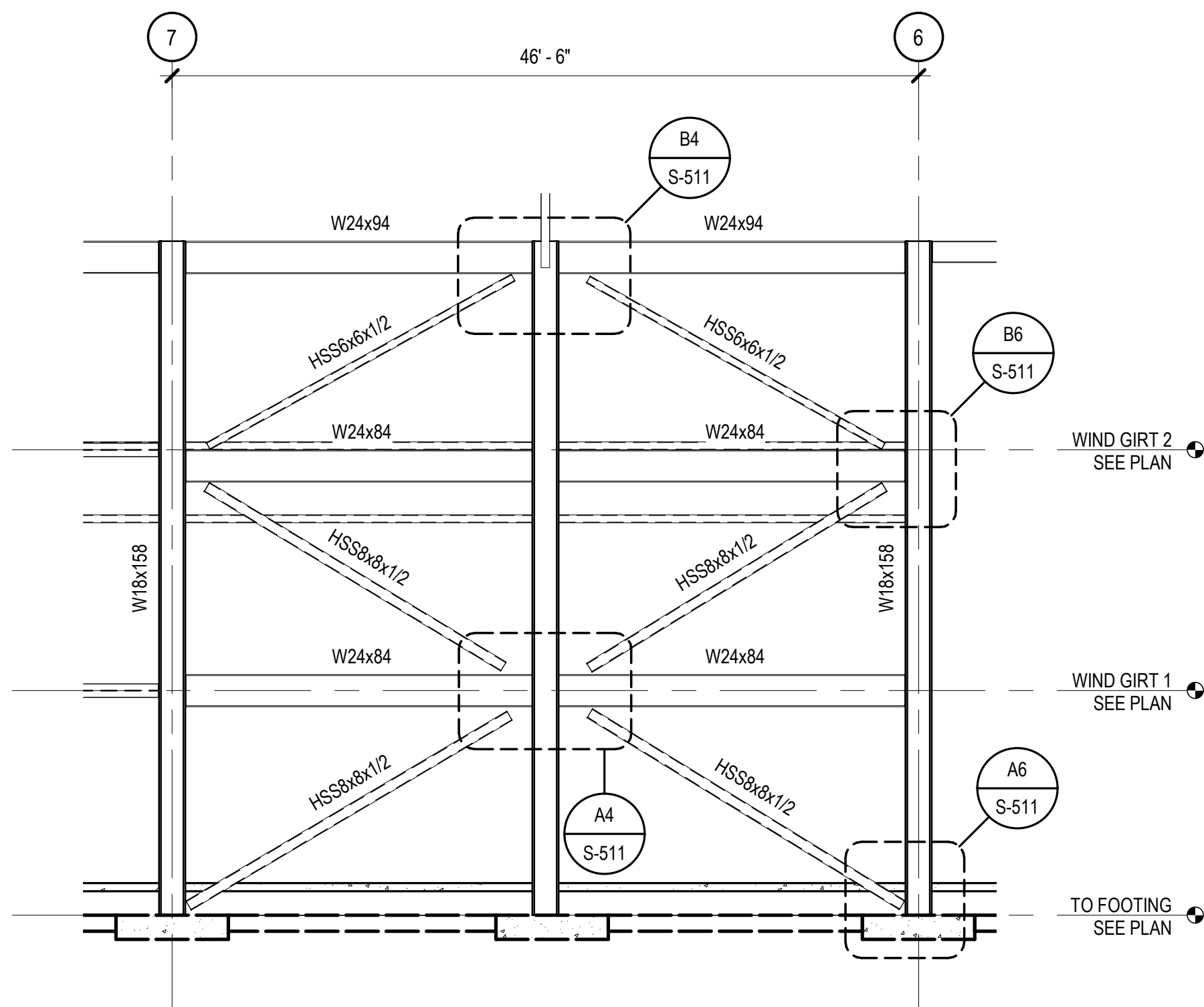
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FRAMING ELEVATIONS

SHEET NUMBER
S-212
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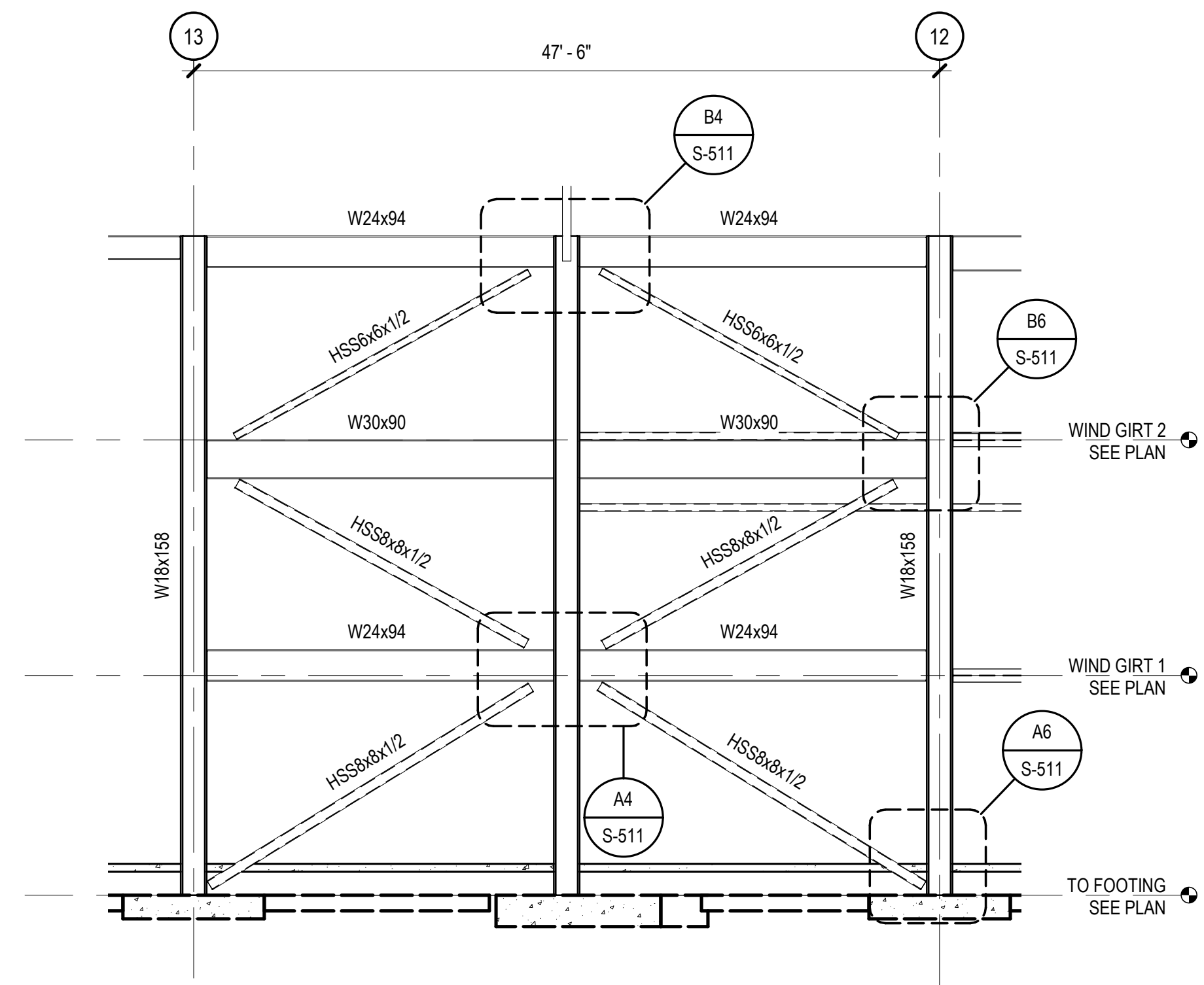
BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



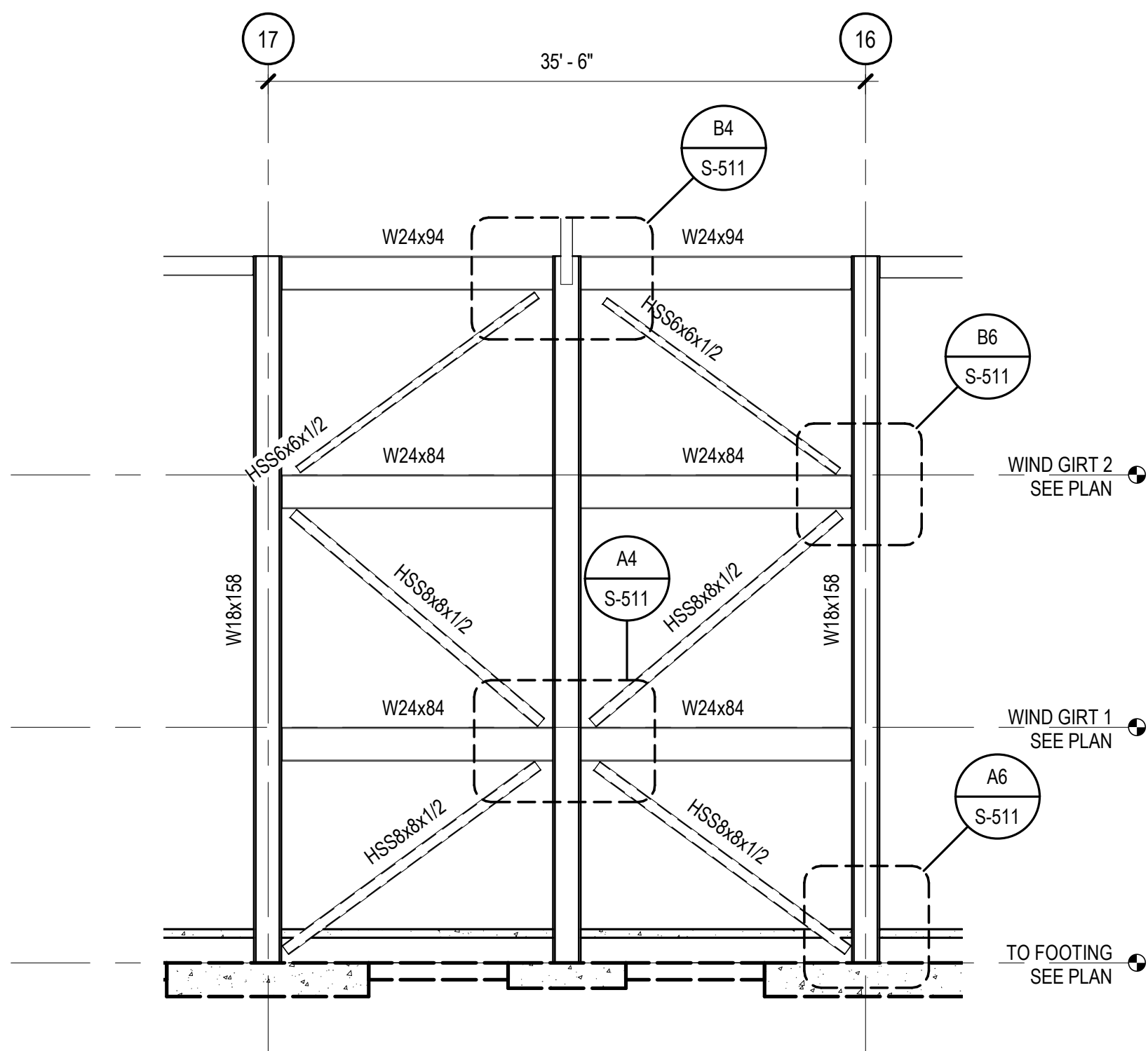
D2 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



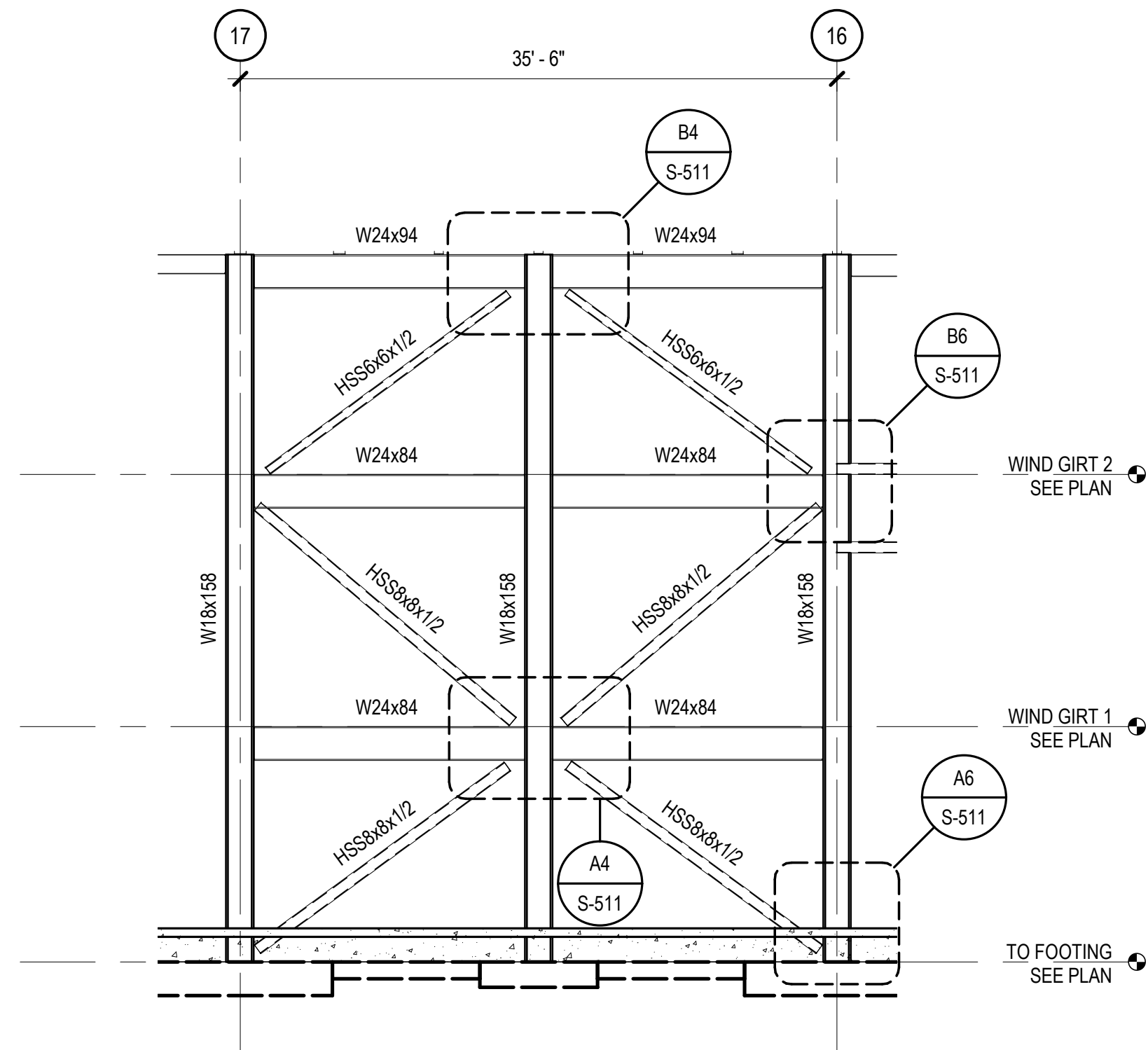
D4 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



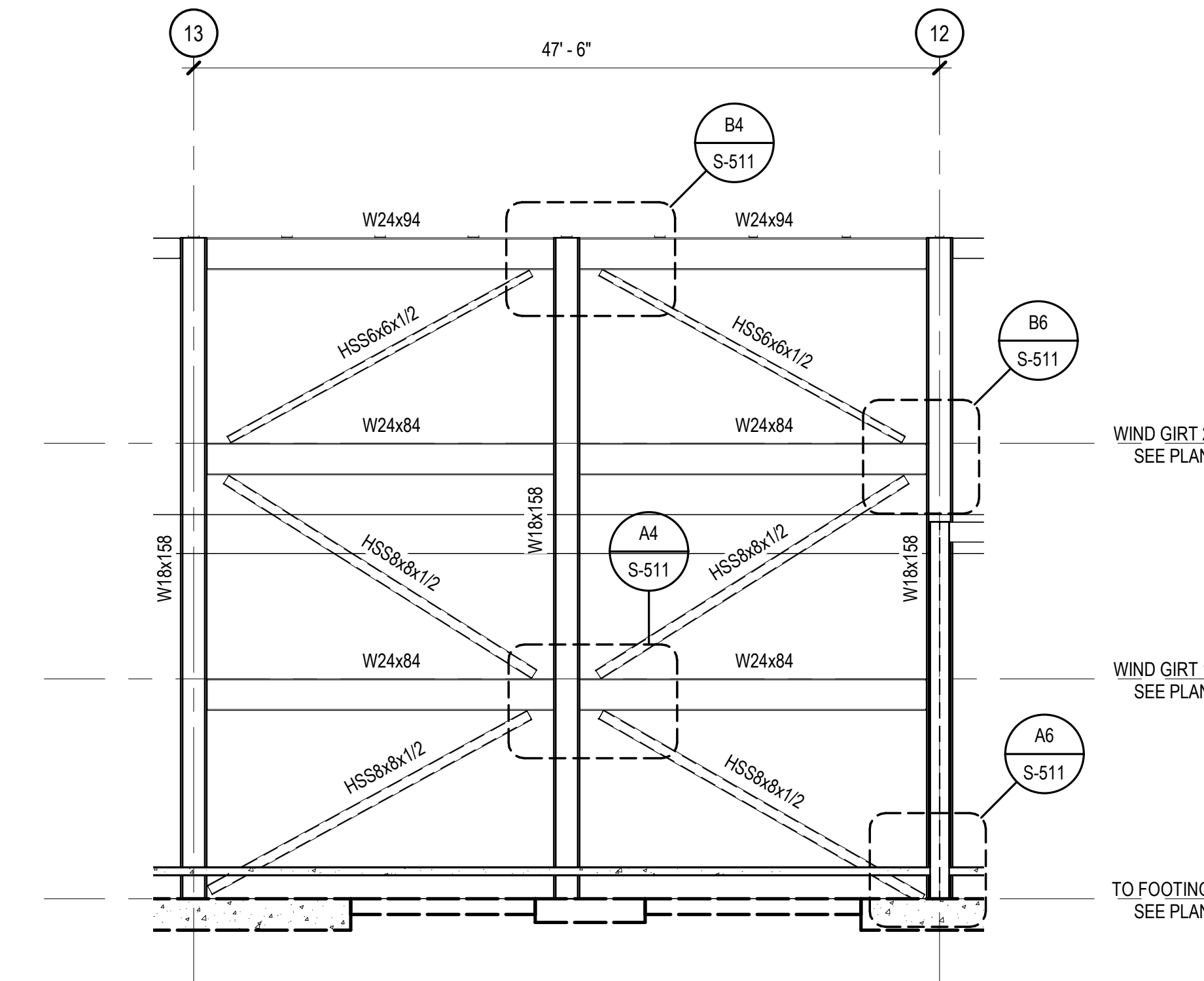
D6 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



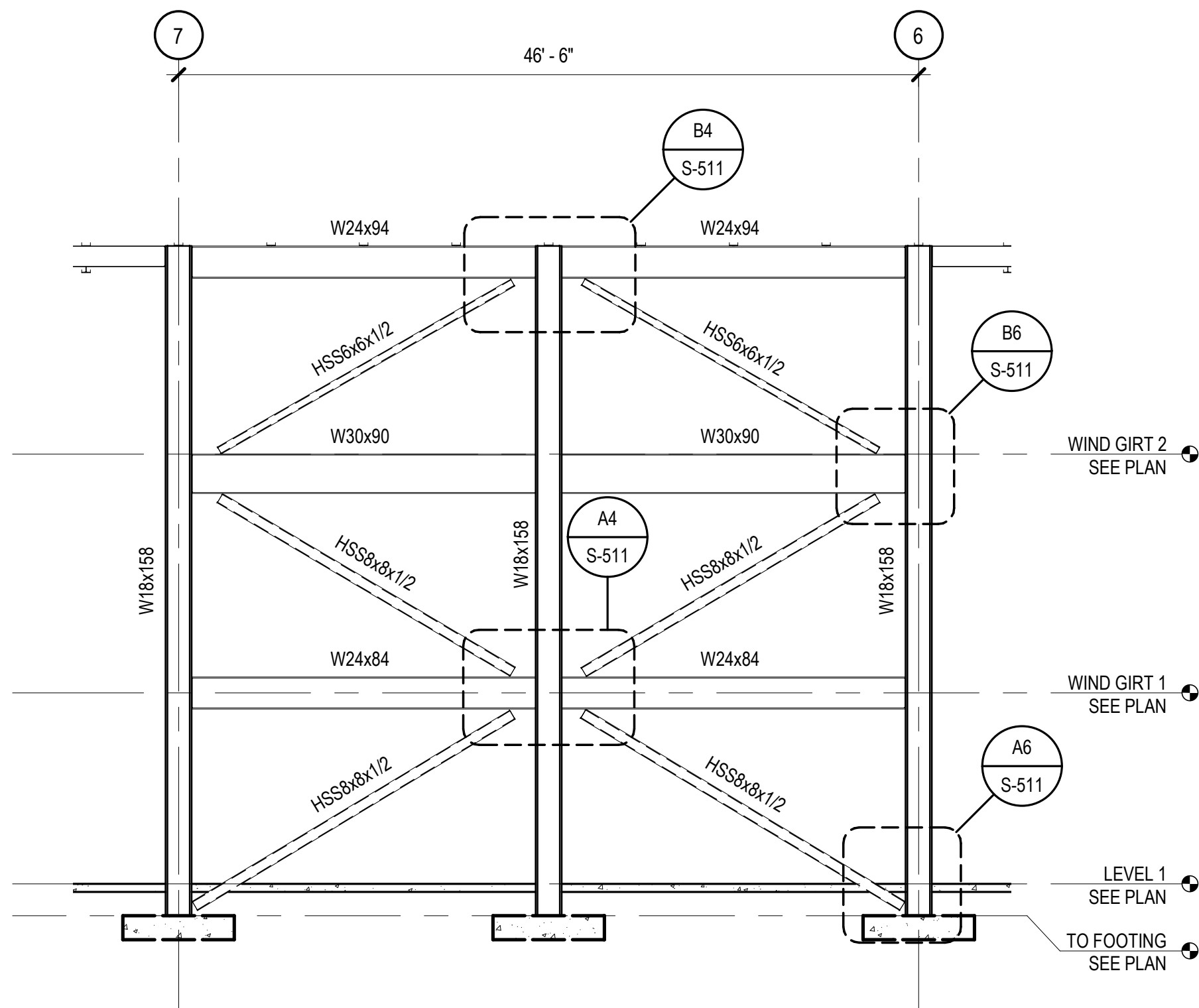
C2 BRACED FRAME ELEVATION 4
SCALE: 1/8" = 1'-0"



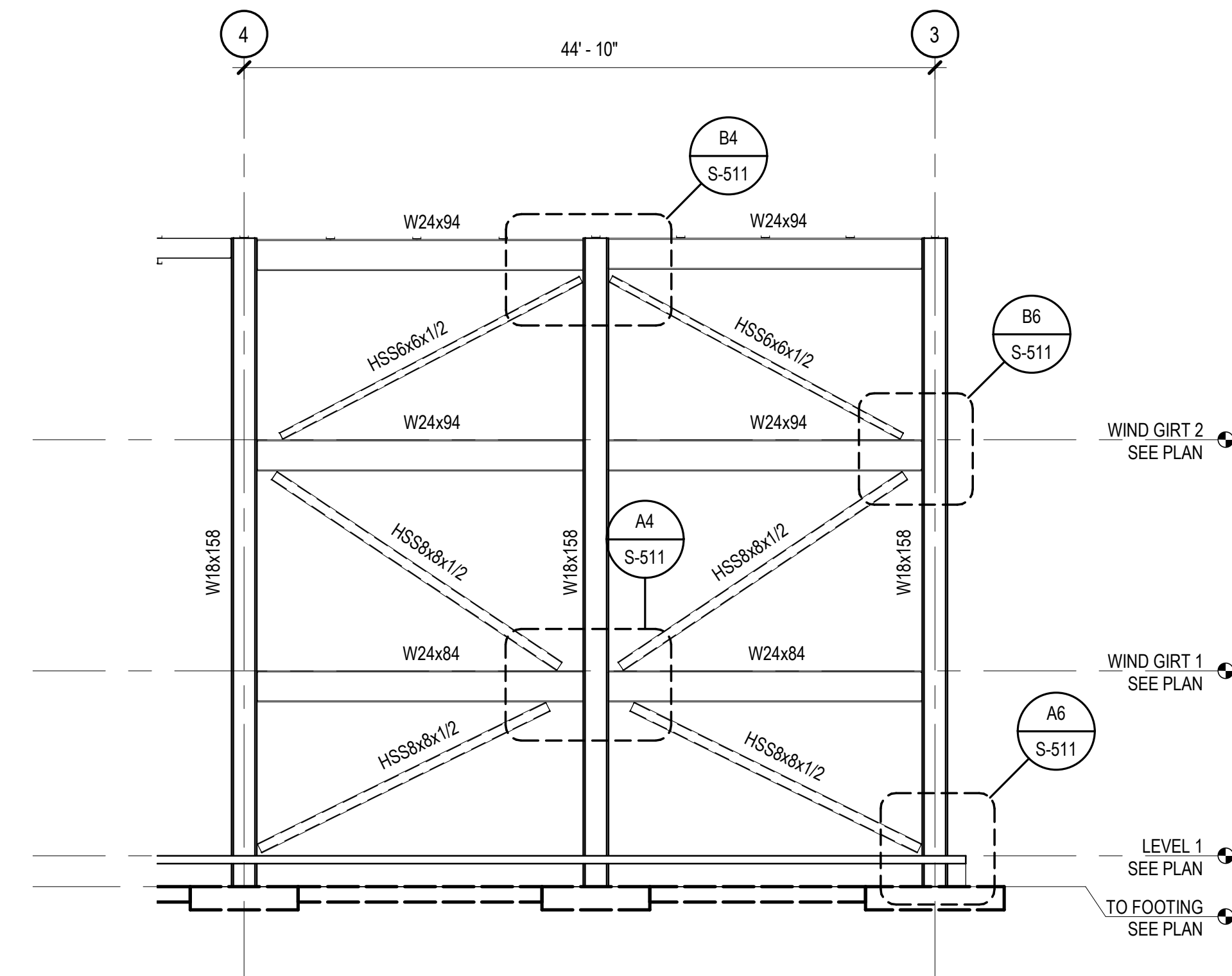
C4 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



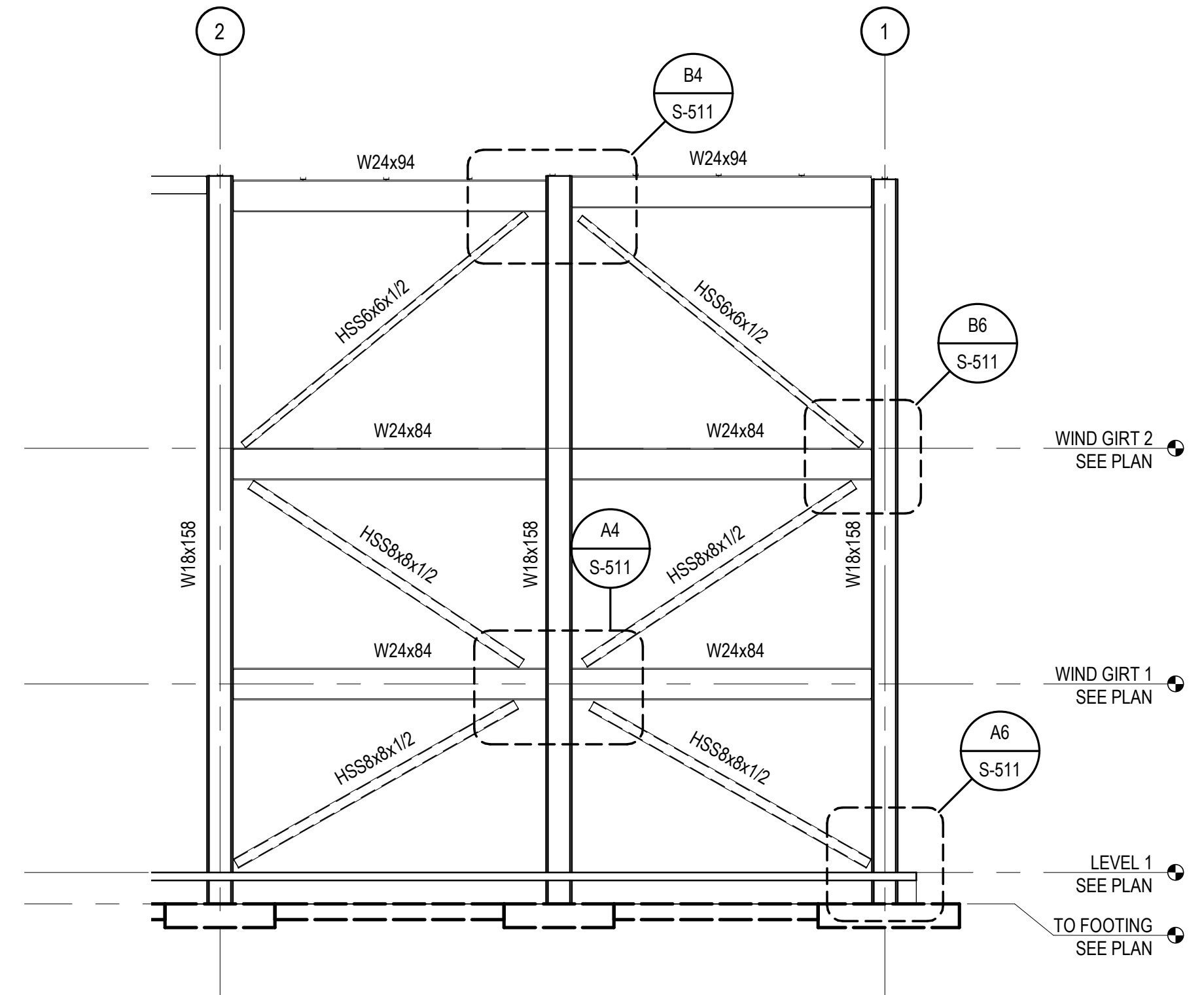
C6 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



A2 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



A4 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



A6 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

OWNER:
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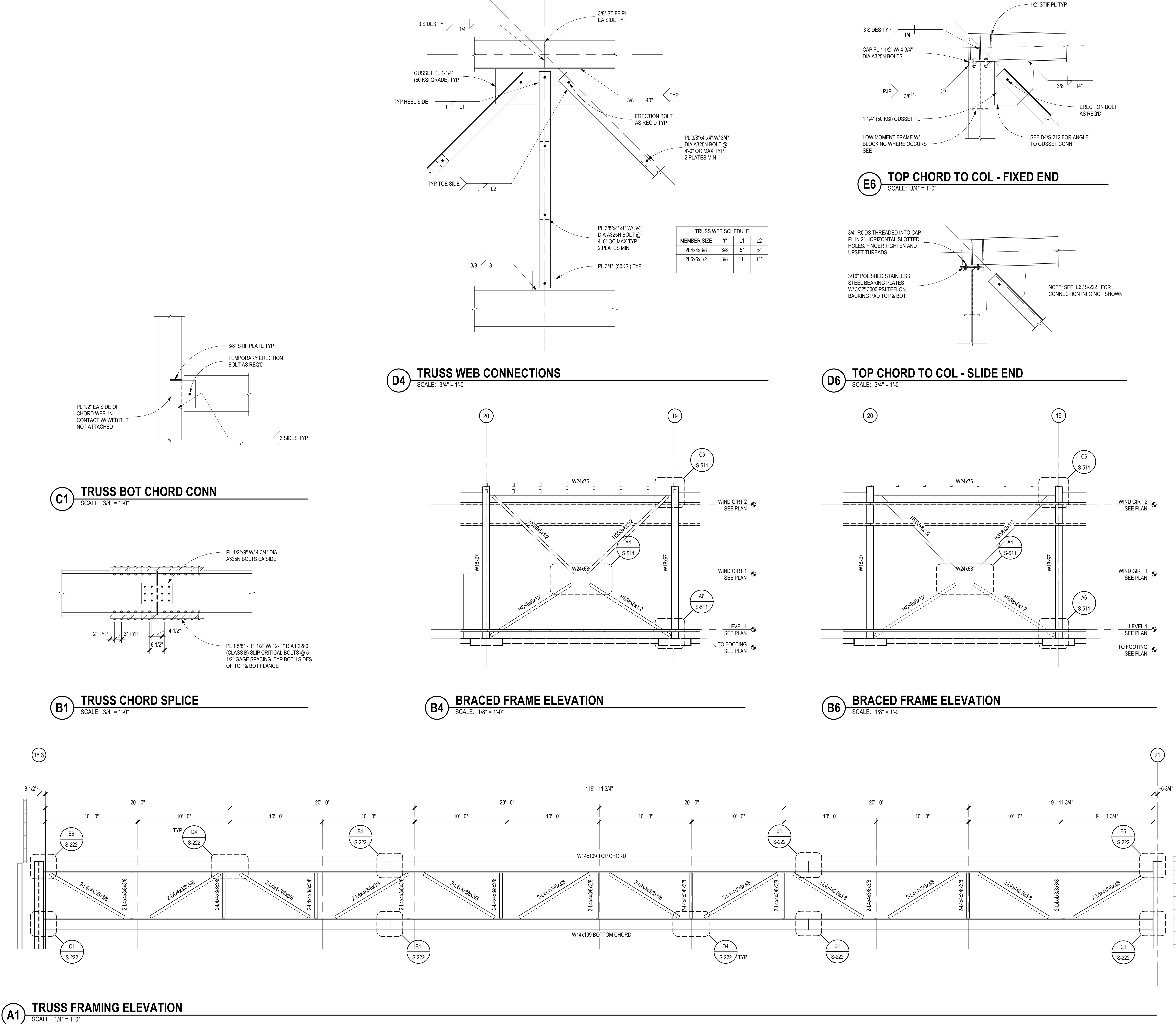
**BRACED FRAME
ELEVATIONS**

SHEET NUMBER

S-221

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
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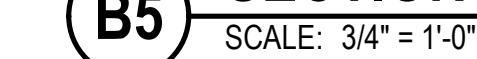
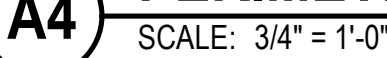
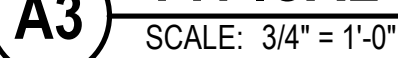
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**WAREHOUSE
BRACED FRAME &
TRUSS
ELEVATIONS**

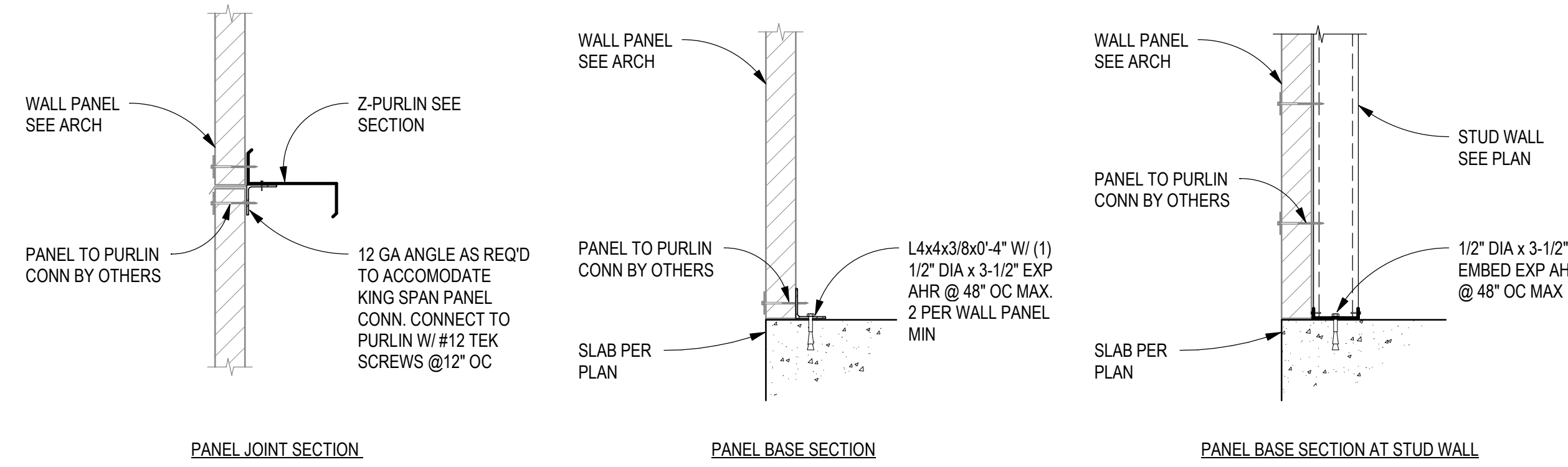
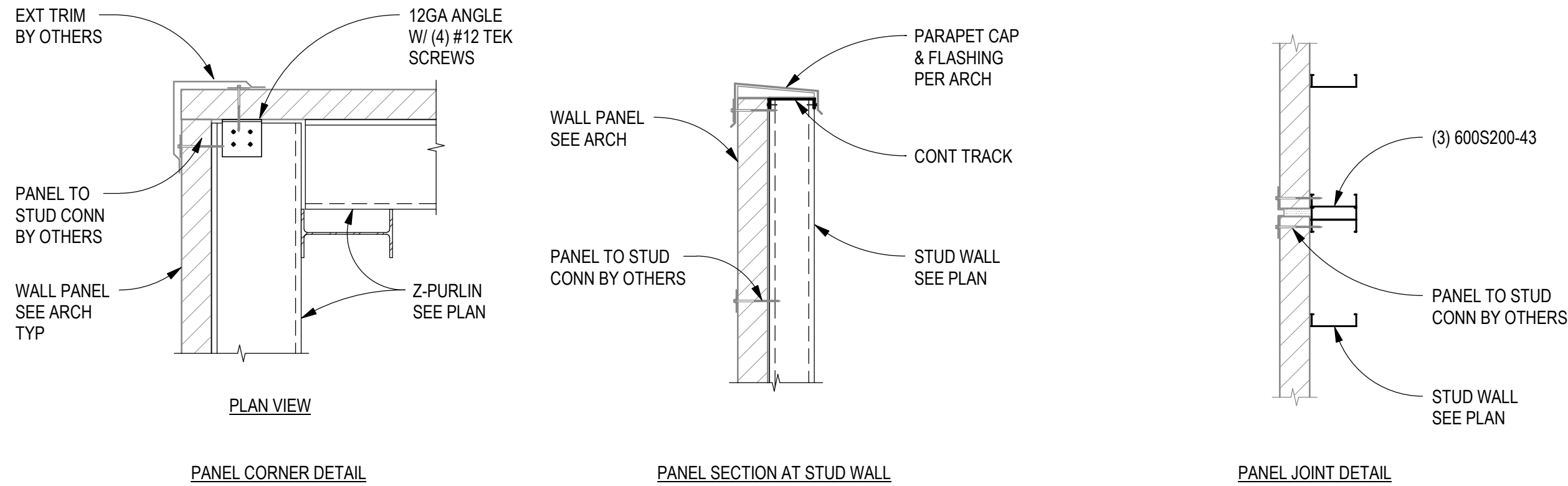
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S-222
Sequence of



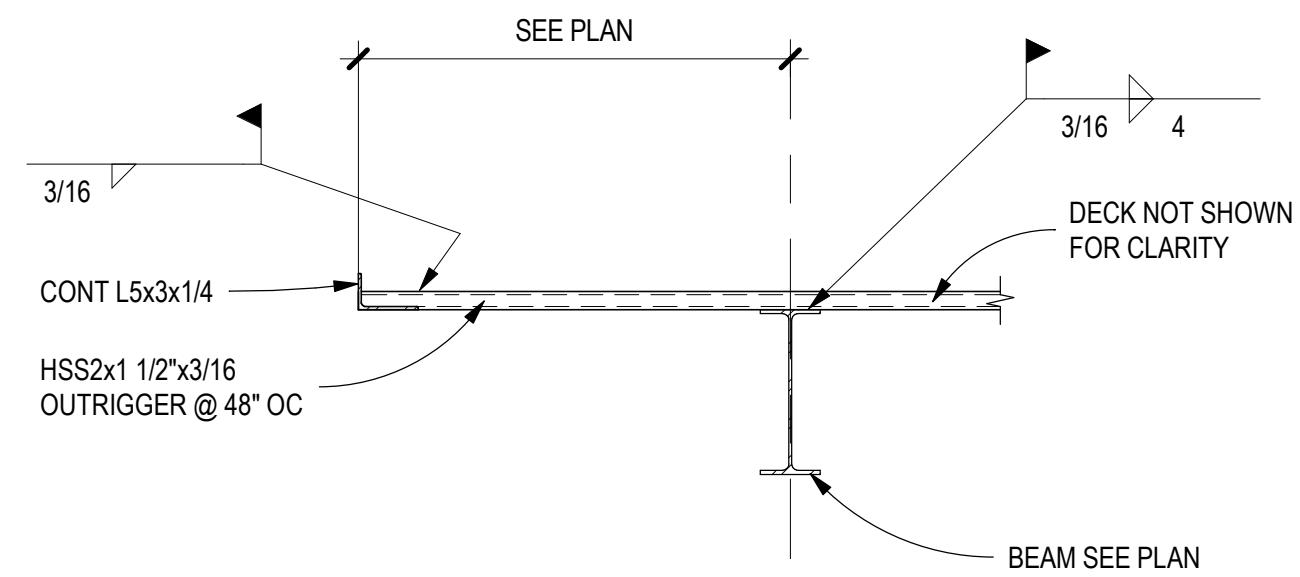
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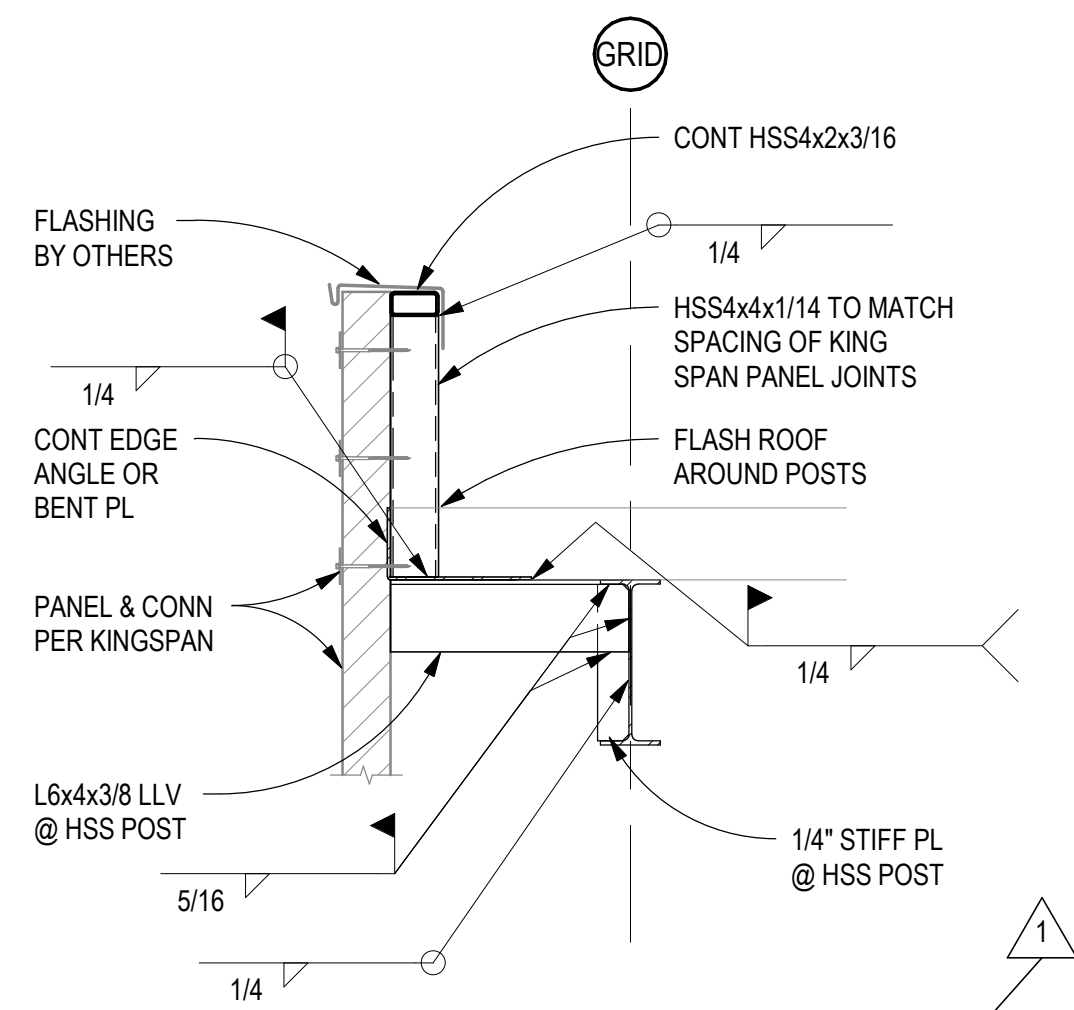
C1 TYPICAL WALL PANEL CONNECTIONS

SCALE: 3/4" = 1'-0"



B3 DETAIL AT OVERHANG IN FLUTE

SCALE: 3/4" = 1'-0"

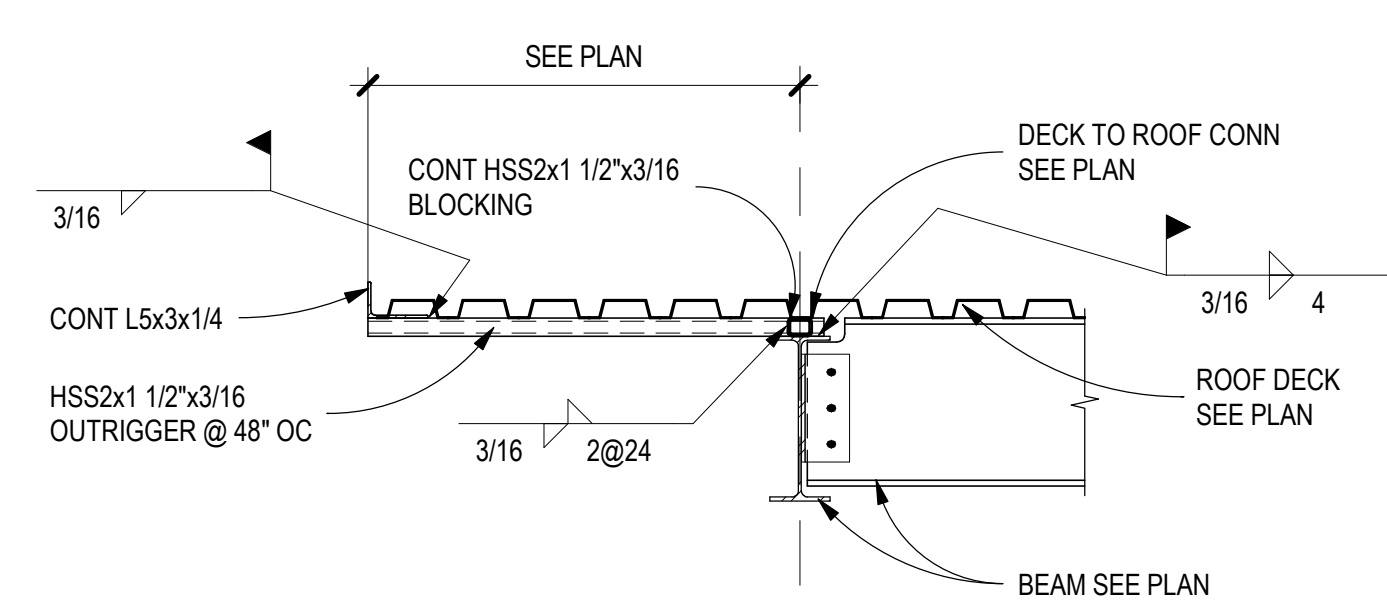


A1 PARAPET FRAMING DETAIL

SCALE: 3/4" = 1'-0"

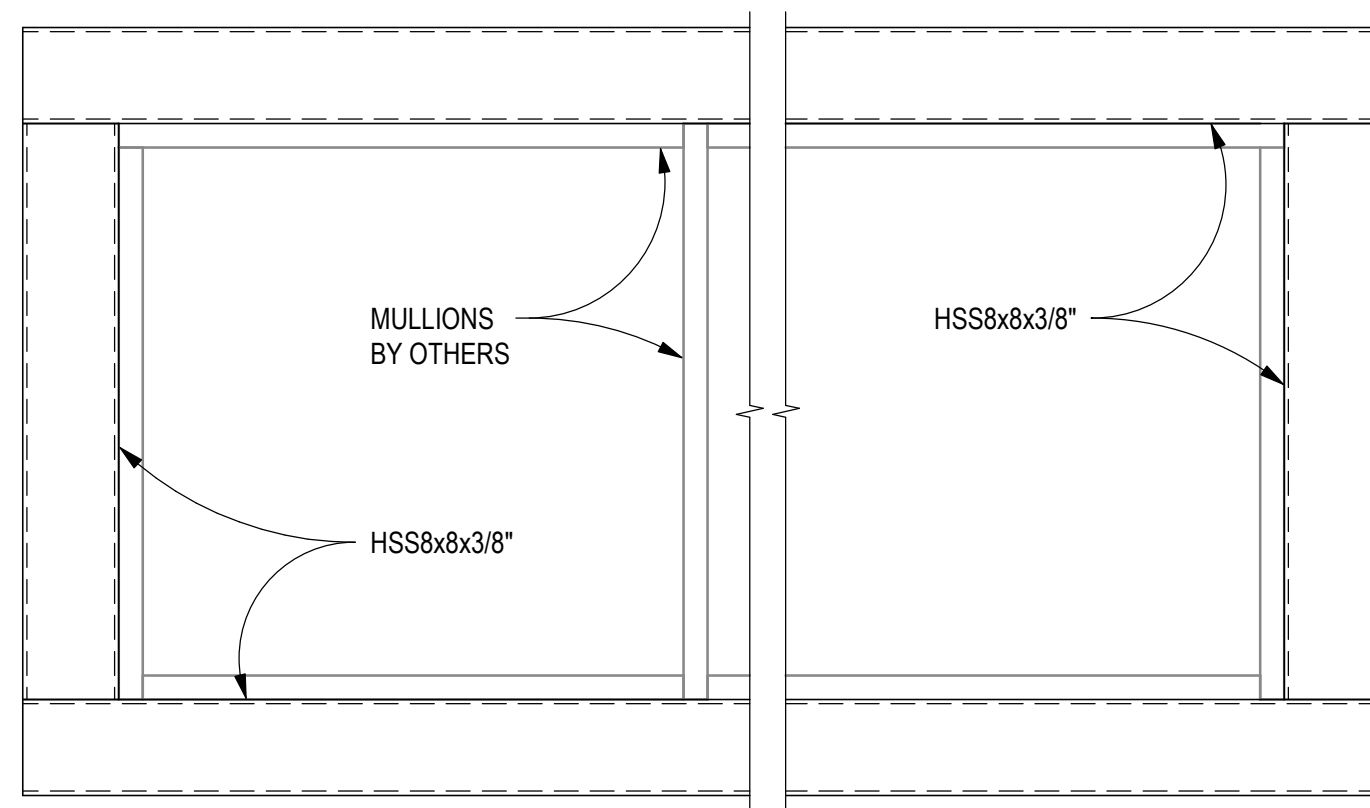
A3 DETAIL AT OVERHANG

SCALE: 3/4" = 1'-0"



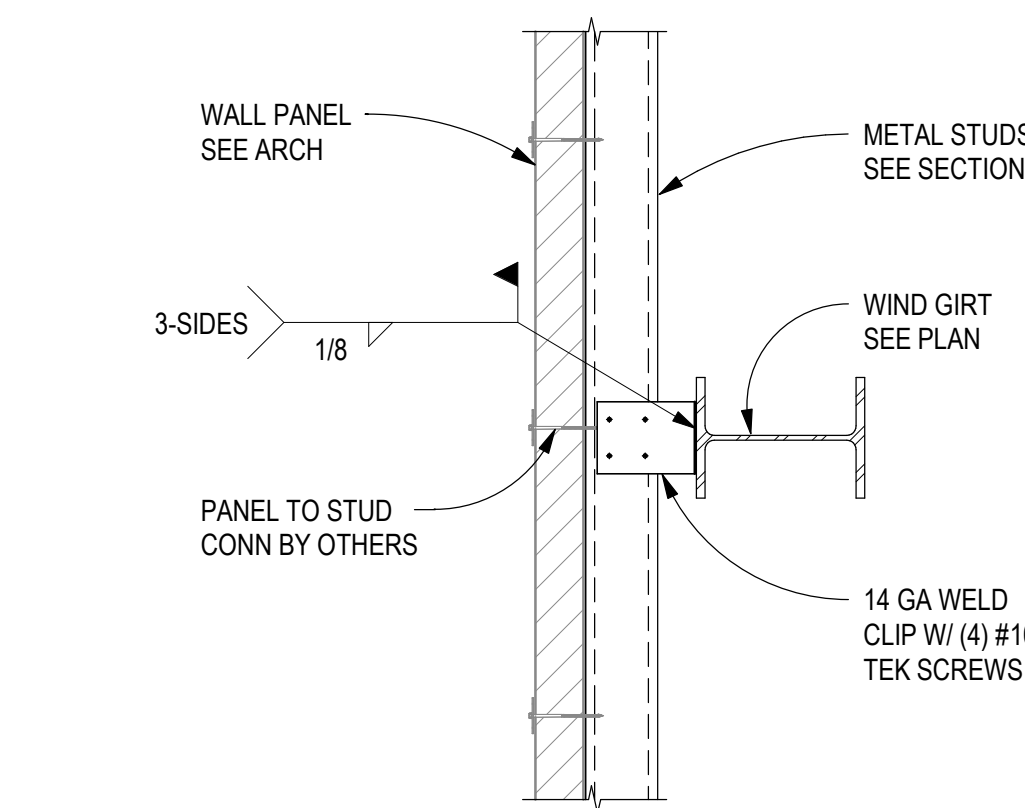
B5 METAL STUD TO COLUMN CONN

SCALE: 3/4" = 1'-0"



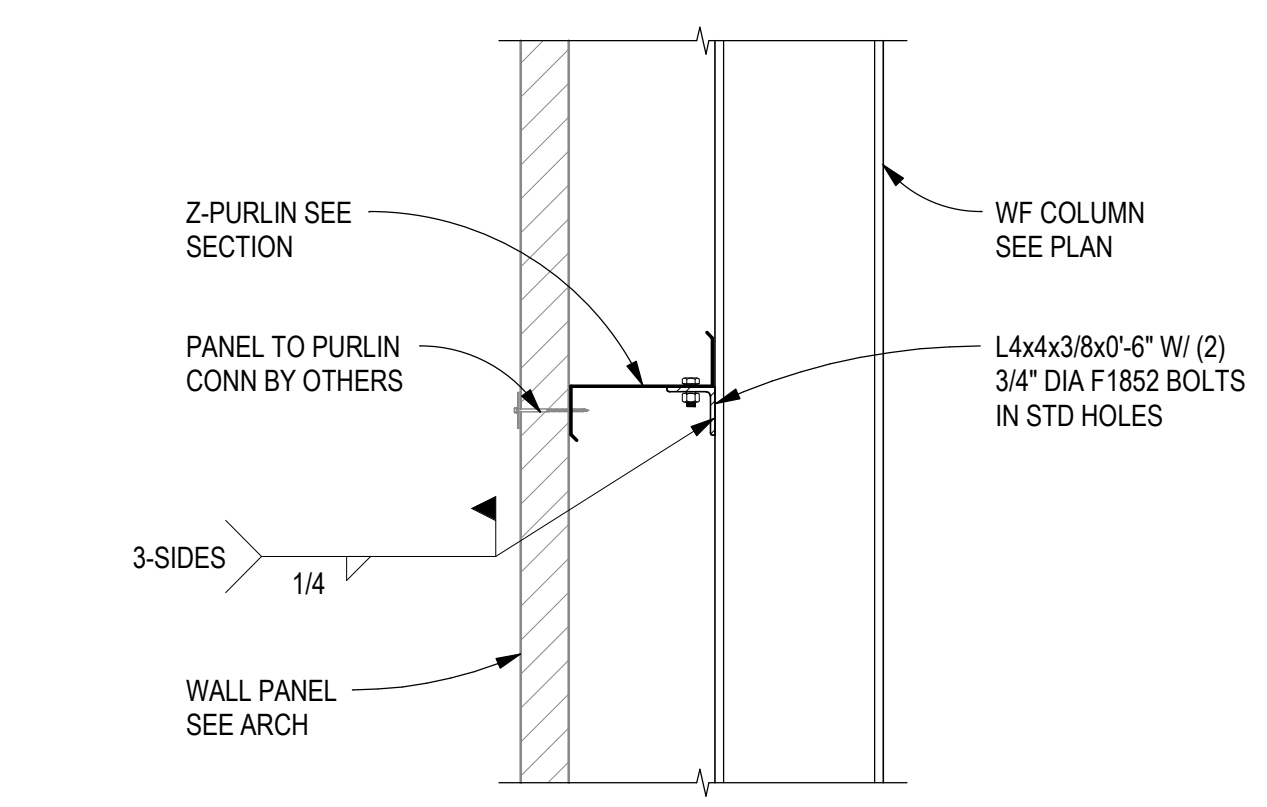
A5 HSS WINDOW FRAME

SCALE: 3/4" = 1'-0"



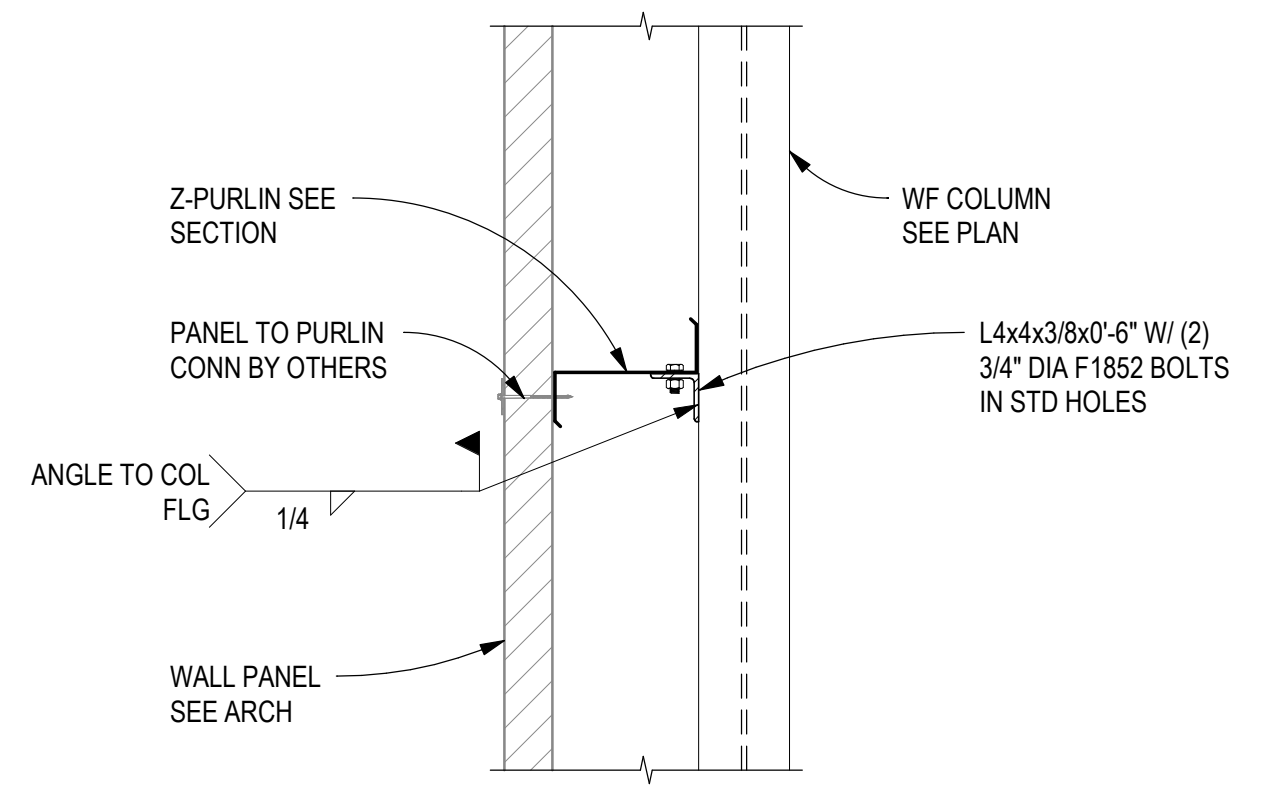
C5 Z-PURLINS TO COLUMN CONN

SCALE: 3/4" = 1'-0"



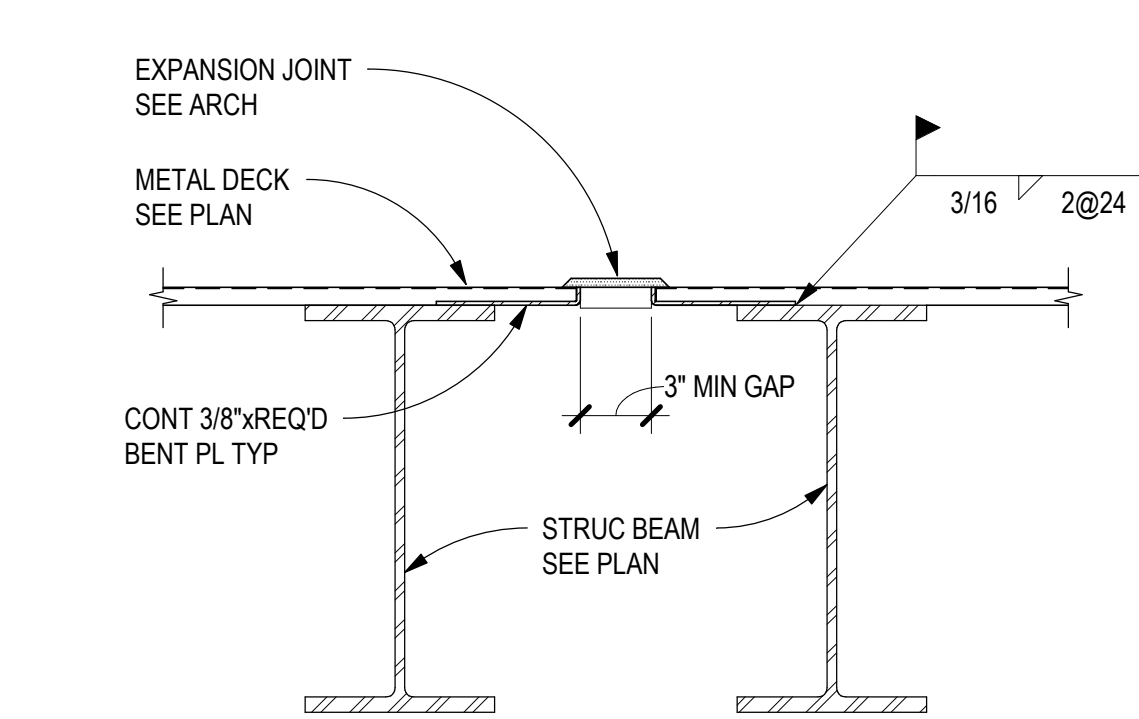
E5 Z-PURLINS TO COLUMN CONN

SCALE: 3/4" = 1'-0"



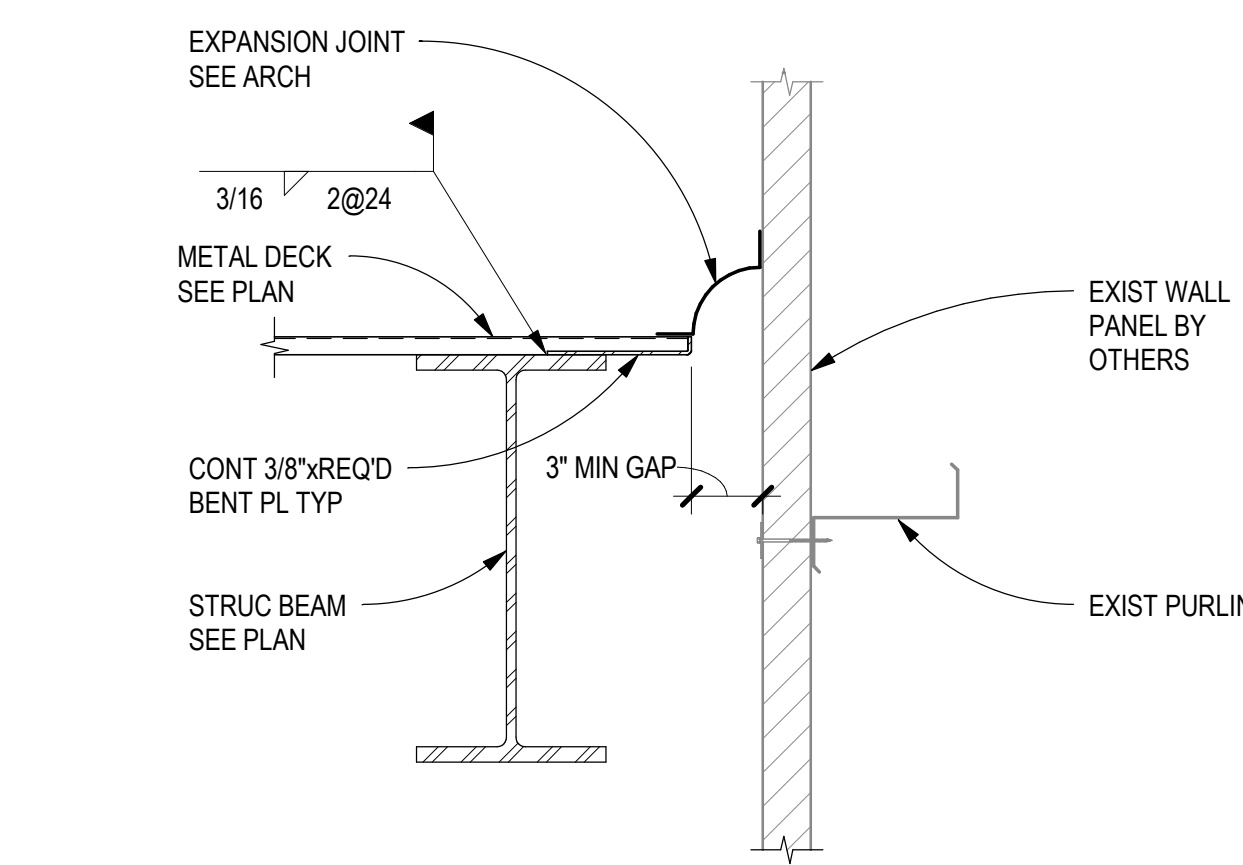
B6 FUTURE EXPANSION JOINT DETAIL

SCALE: 3/4" = 1'-0"



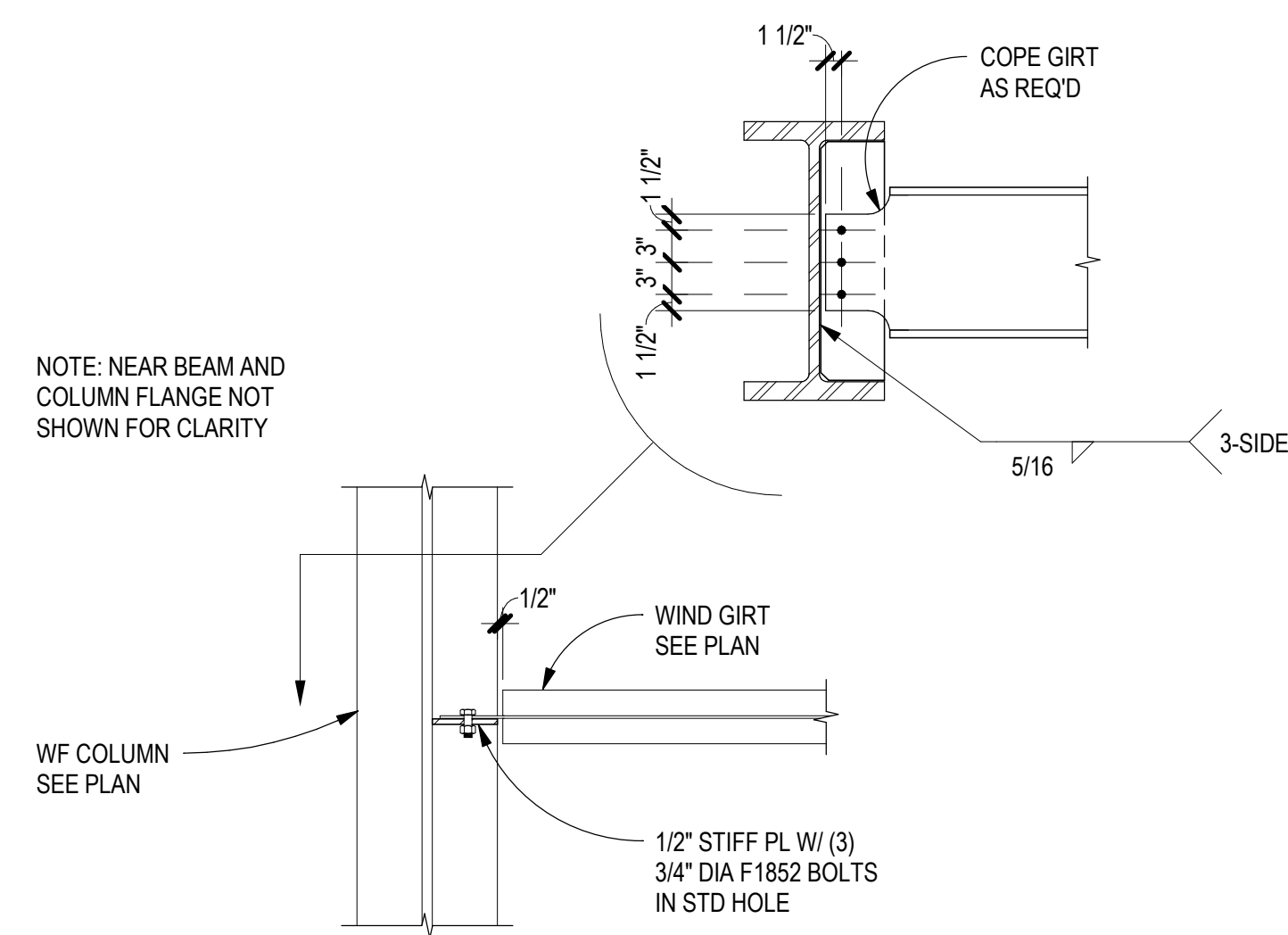
A6 EXPANSION JOINT DETAIL

SCALE: 3/4" = 1'-0"



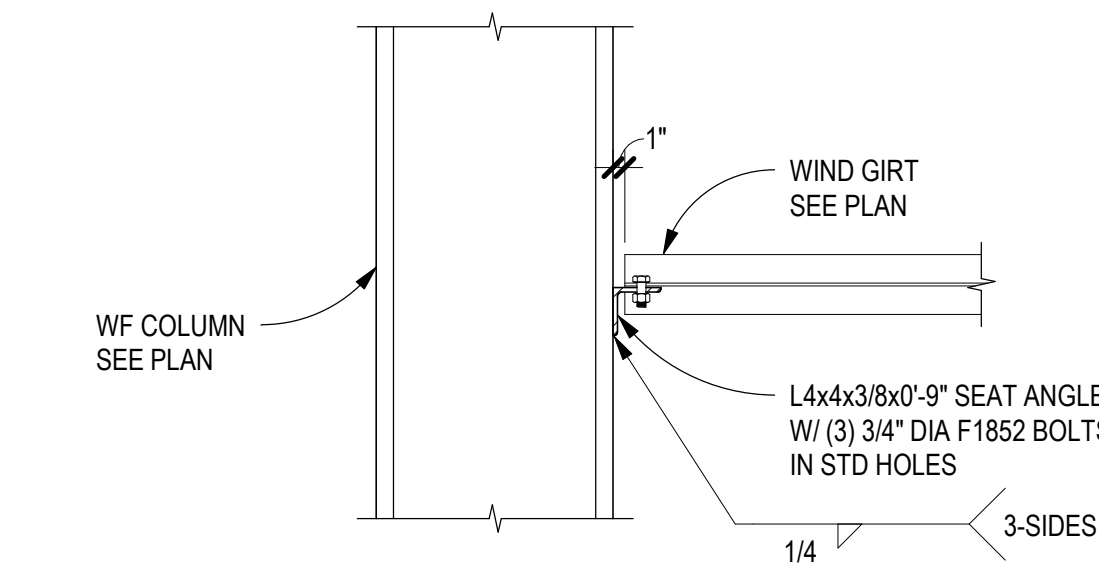
C6 WIND GIRT TO COL WEB CONN

SCALE: 3/4" = 1'-0"



E6 WIND GIRT TO COL FLANGE CONN

SCALE: 3/4" = 1'-0"



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

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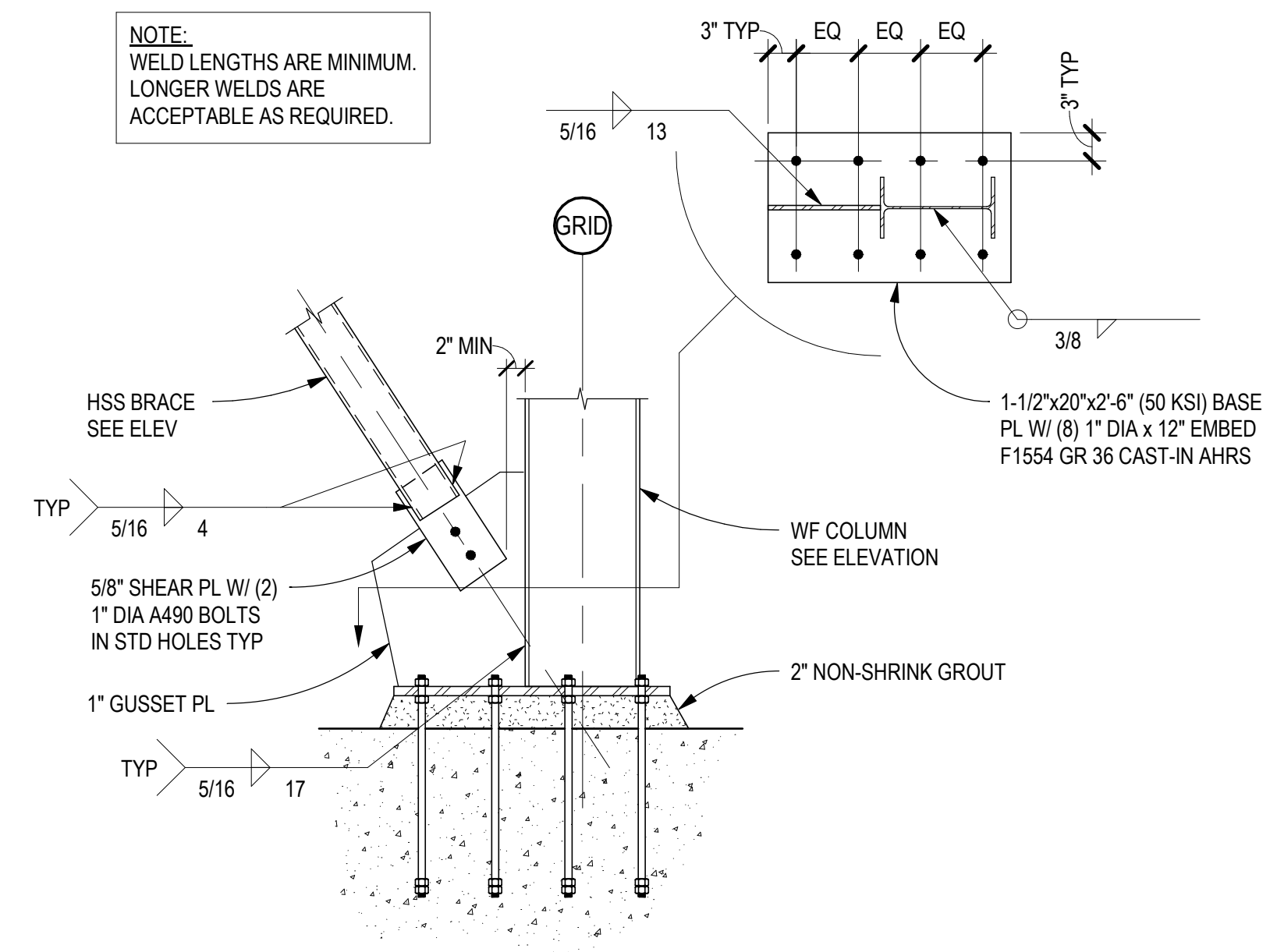
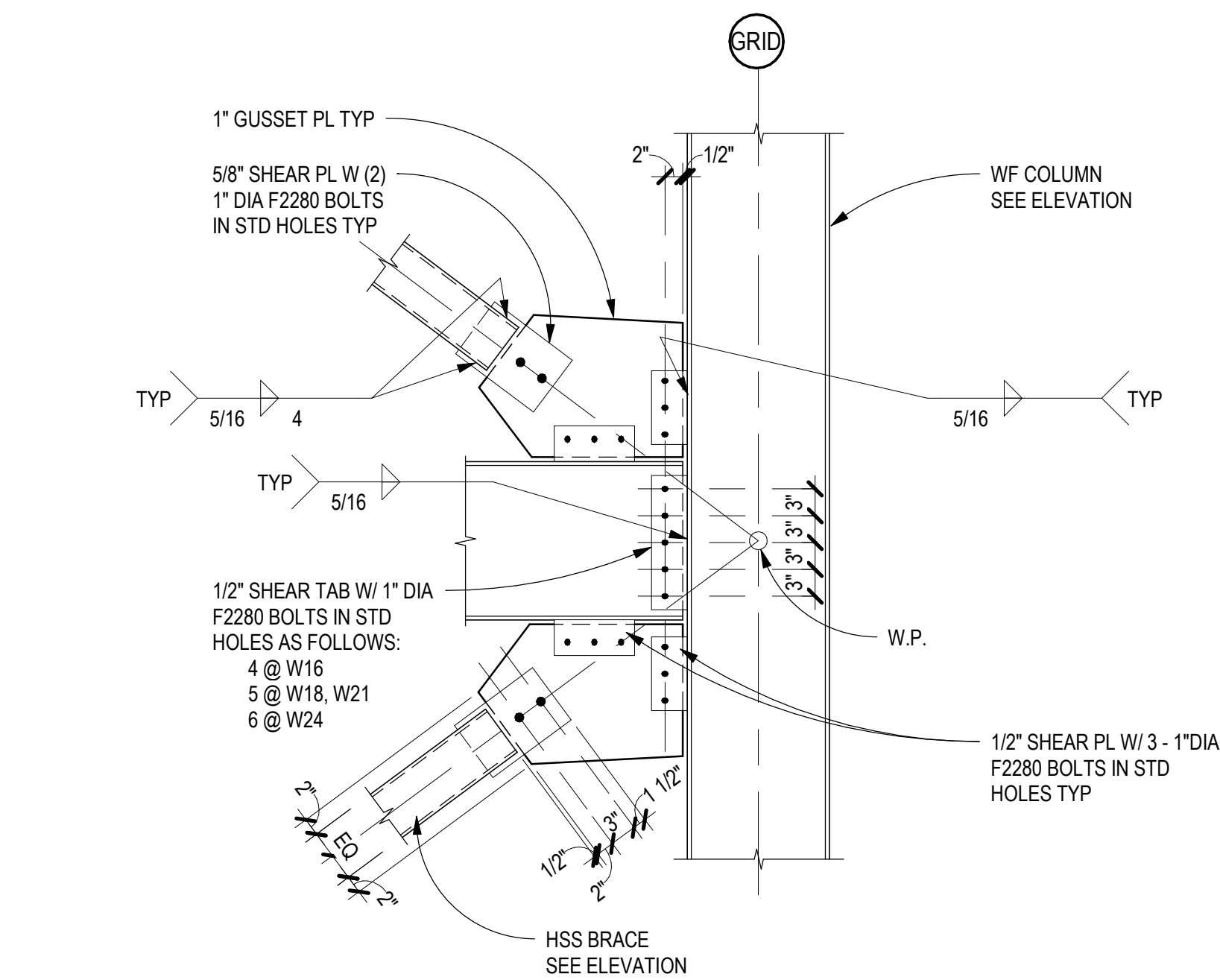
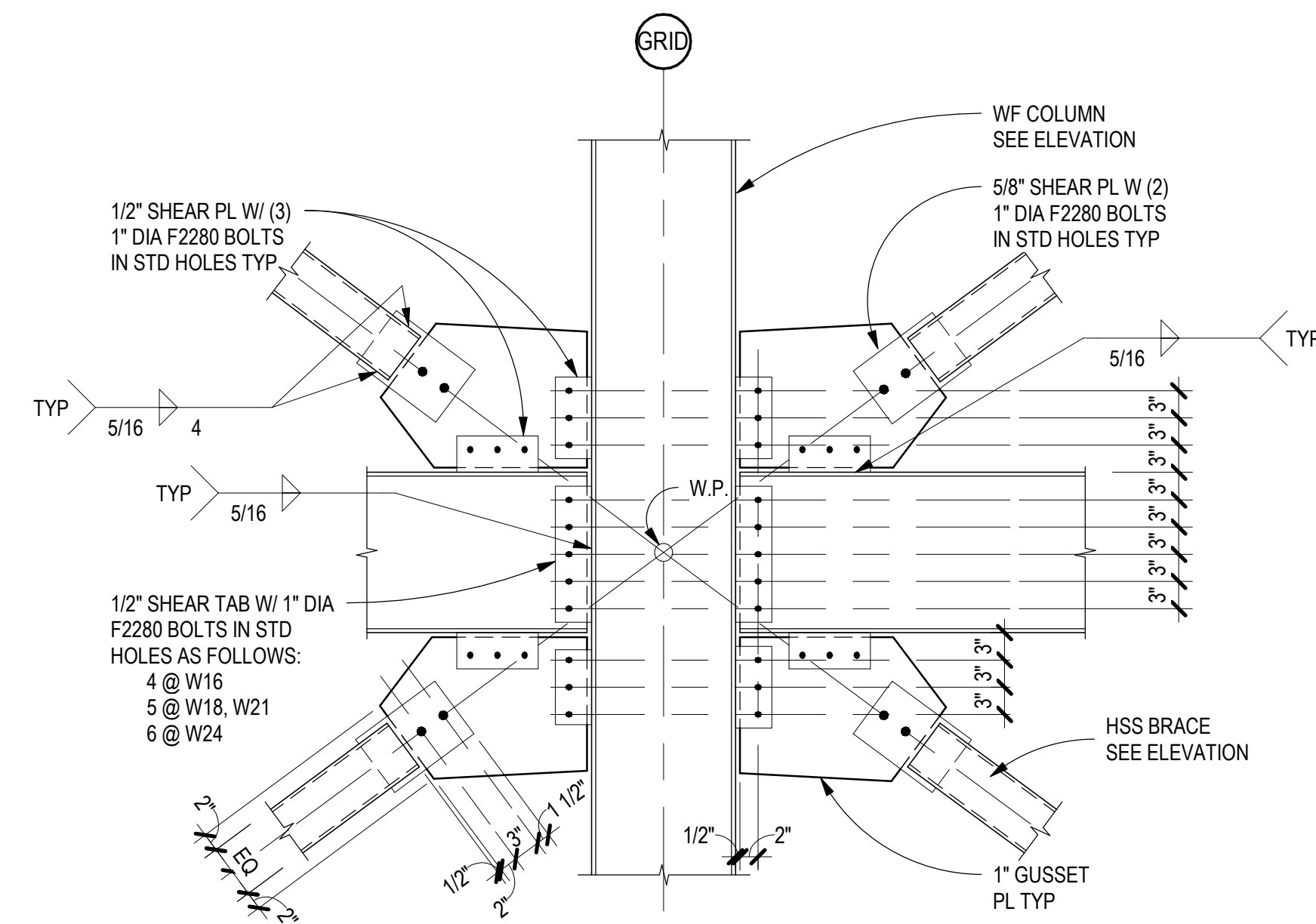
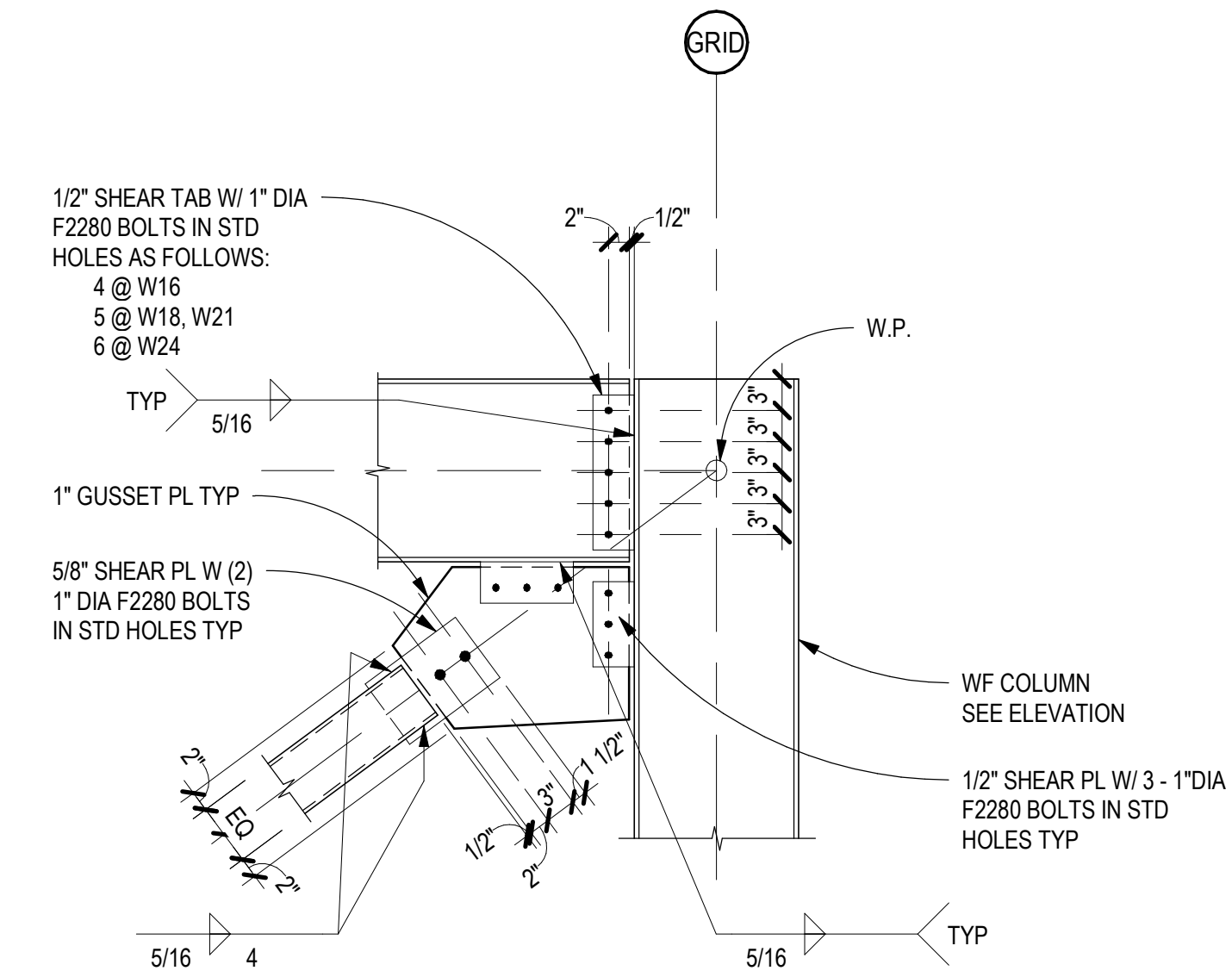
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SHEET TITLE
FRAMING SECTIONS AND DETAILS

SHEET NUMBER

S-501

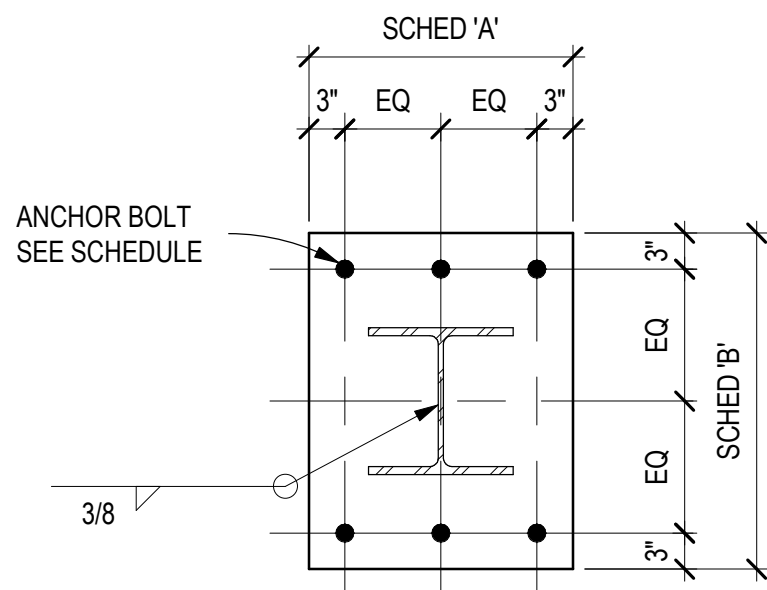
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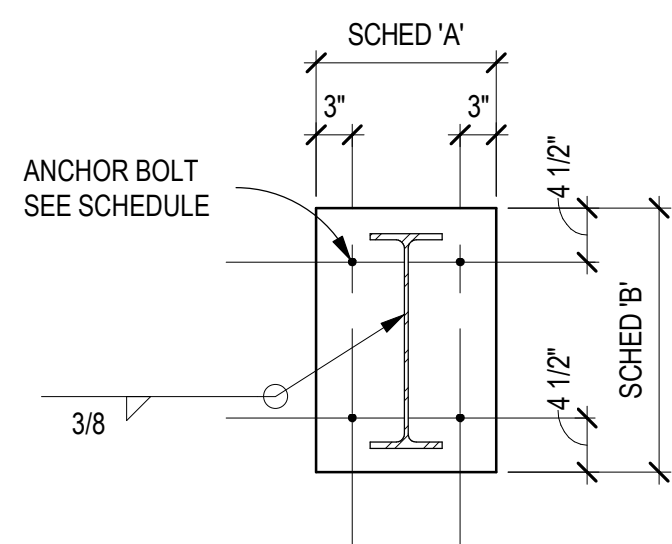
A6 BRACED FRAME CONNECTION
SCALE: 3/4" = 1'-0"

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt

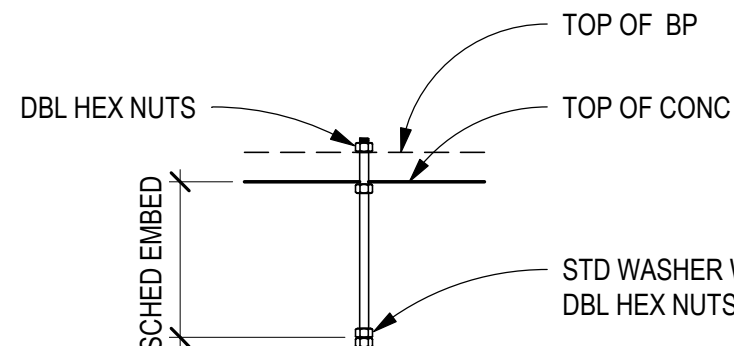
BASE PLATE SCHEDULE					
BASE PLATE			ANCHOR BOLTS		REMARKS
MARK	TYPE	SIZE "T"x"A"x"B"	F1554 GR36 ANCHOR BOLTS	TYPE	
BP1	A	PL 2" x 22" x 3'-4"	6- 1-3/4" DIA x 15" EMBED	2	A572 GRADE 50 PLATE. 8-#5 ANCHOR REINF TENSION TIES
BP2	A	PL 1-3/4" x 22" x 2'-4"	6- 1-1/4" DIA x 15" EMBED	2	A572 GRADE 50 PLATE. 6-#5 ANCHOR REINF TENSION TIES
BP3	B	PL 1" x 15" x 1'-10"	4- 3/4" DIA x 12" EMBED	1	A572 GRADE 50 PLATE
BP3	B	PL 1" x 12" x 1'-3"	4- 3/4" DIA x 12" EMBED	1	A572 GRADE 50 PLATE



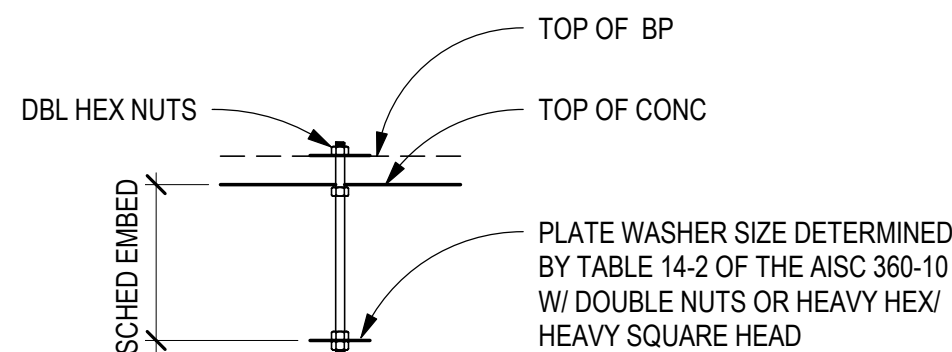
TYPE 'A'



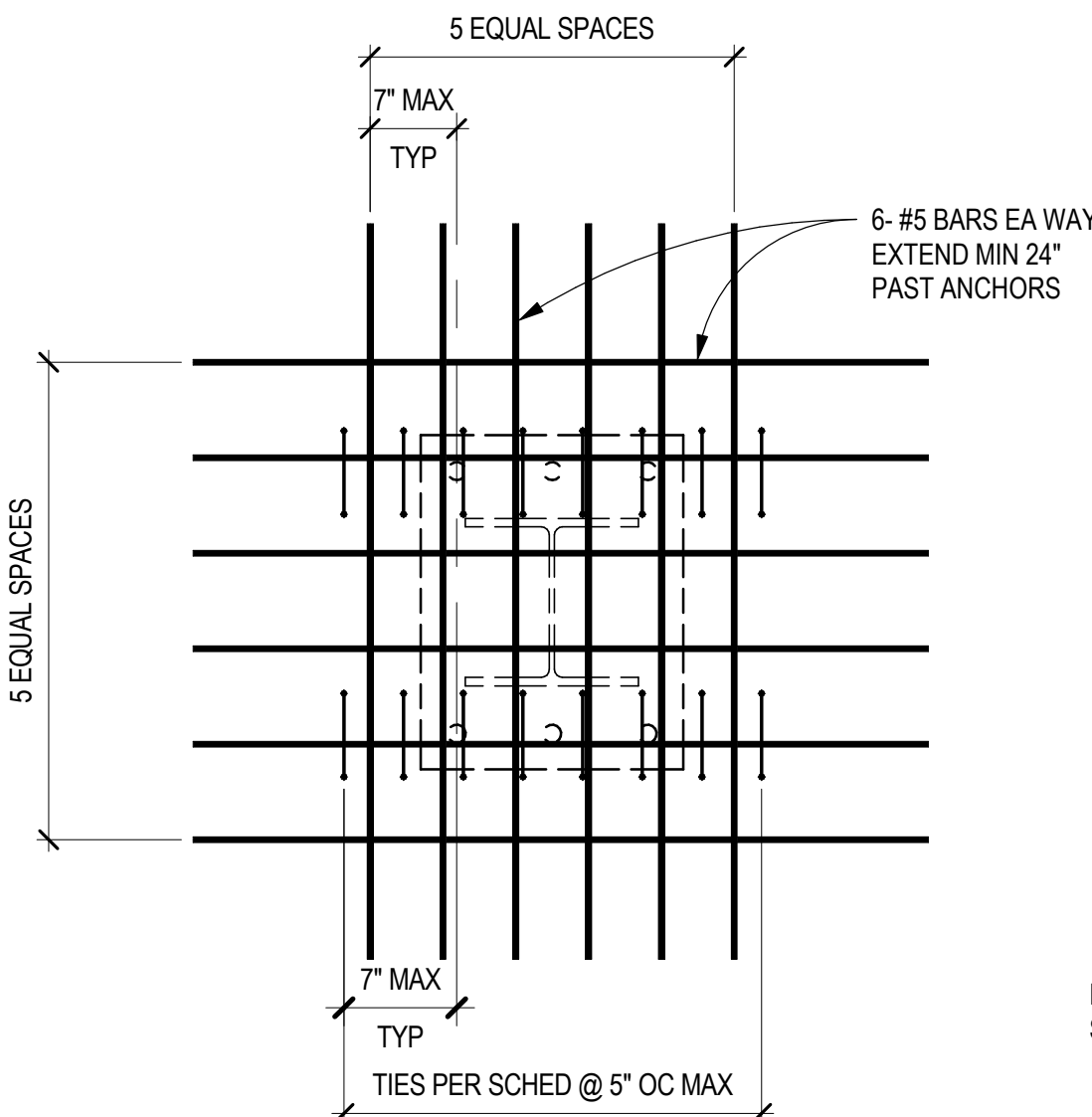
TYPE 'B'



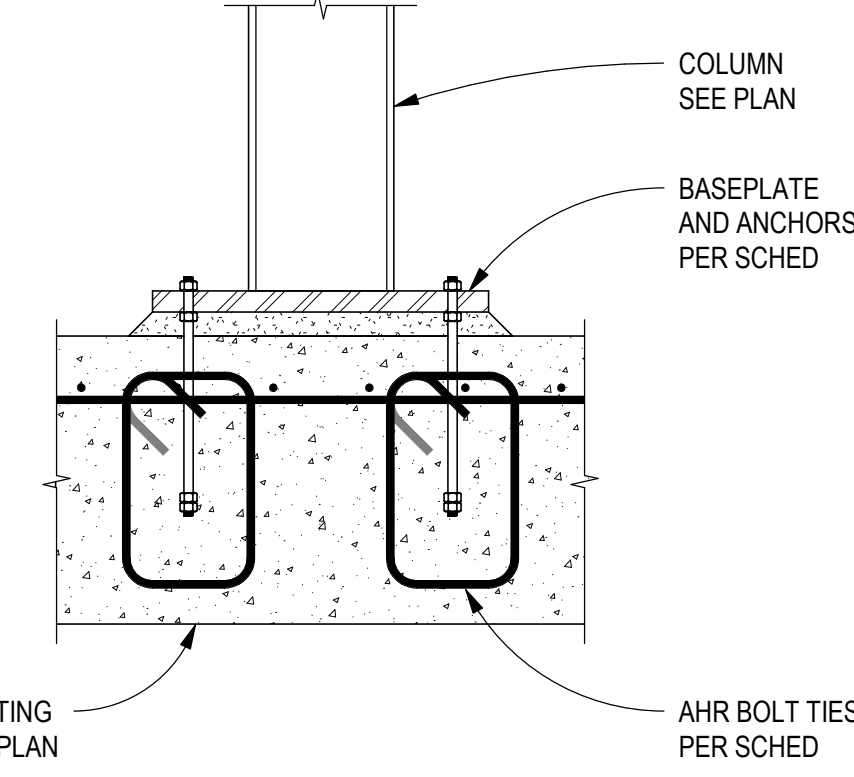
TYPE 1 - GRAVITY



TYPE 2 - LATERAL



ANCHOR REINF PLAN VIEW



ANCHOR REINF SECTION VIEW

NOTE:
PRIMARY FTG REINF NOT
SHOWN FOR CLARITY.
REFER TO PLAN AND SCHED

A3 BASE PLATE SUPPLEMENTAL REINFORCEMENT

SCALE: 3/4" = 1'-0"

REINFORCING LAP SPLICE SCHEDULE							
REINFORCEMENT TYPE	#6 AND SMALLER (NUMBER OF BAR DIAMETERS)			#7 AND LARGER (NUMBER OF BAR DIAMETERS)			COMMENTS
	3000 PSI	4000 PSI	5000 PSI	3000 PSI	4000 PSI	5000 PSI	
CONTINUOUS WALL FOOTINGS AND HORIZONTAL REINFORCEMENT IN SITE WALLS	30	30	30	30	30	30	18
CONCRETE WALLS: ALL VERTICAL REINFORCEMENT	57	50	45	72	62	56	12
CONCRETE WALLS: ALL HORIZONTAL REINFORCEMENT, EXCLUDING SITE WALLS AND STEMWALLS	75	65	58	93	81	72	12
CONCRETE COLUMNS	57	50	45	72	62	56	12
TOP FLEXURAL REINFORCEMENT, INCLUDING BEAMS, GRADE BEAMS, AND COMBINED FOOTING COLUMNS	75	65	58	93	81	72	12
BOTTOM FLEXURAL REINFORCEMENT, INCLUDING BEAMS, GRADE BEAMS, AND COMBINED COLUMN FOOTINGS	57	50	45	72	62	56	12
MINIMUM EMBEDMENT OF STANDARD HOOKS INTO CONCRETE BASE	22	19	17	22	19	17	6 ALLOWED FOR BARS LARGER THAN #11
SLABS-ON-GRADE		30			30		12
SLABS OVER METAL DECK		30			30		6 WELDED WIRE FABRIC MINIMUM LAP LENGTH = 6 INCHES
ALL CMU LAPS UNLESS NOTED OTHERWISE		48			48		18
NOTES: 1. LAP SPLICES SHALL NOT BE PERMITTED FOR BARS LARGER THAN #11 IN CONCRETE OR #9 IN MASONRY. SUCH SPLICES SHALL USE APPROVED MECHANICAL CONNECTIONS 2. LAP SPLICES FOR BUNDLED BARS SHALL BE IN ACCORDANCE WITH ACI 318 3. LAP LENGTHS FOR LIGHTWEIGHT CONCRETE SHALL BE INCREASED BY 33% 4. LAP LENGTHS FOR EPOXY COATED BARS SHALL BE INCREASED BY 50% 5. FOR INTERMEDIATE OR LARGER VALUES OF F _c , USE THE CLOSEST LOWER VALUE IN THE TABLE. DO NOT INTERPOLATE							

CONTINUOUS FOOTING SCHEDULE					
MARK	SIZE		CG CONT REINF	CG TRANS REINF	COMMENTS
	WIDTH	DEPTH			
WF24	2'-0"	1'-0"	3- #4 BOT	#4 @ 12" OC BOT	

COMBINED FOOTING SCHEDULE					
MARK	SIZE		CG CONT REINF	CG TRANS REINF	COMMENTS
	Width	DEPTH			
CF111		2'-0"	#7 BARS @ 10" OC MAX TOP & BOT	#7 BARS @ 10" OC MAX TOP & BOT	
CF120	10'-0"	2'-0"	12- #7 TOP & BOT	#7 @ 12" OC TOP & BOT	
CF132	11'-0"	2'-0"	13- #7 TOP & BOT	#7 @ 12" OC TOP & BOT	
CF138	11'-6"	2'-0"	14- #7 TOP & BOT	#7 @ 12" OC TOP & BOT	
CF156	15'-0"	2'-0"	15- #7 TOP & BOT	#7 @ 12" OC TOP & BOT	

SPOT FOOTING SCHEDULE					
MARK	SIZE			REINFORCING	COMMENTS
	WIDTH	LENGTH	DEPTH		
F60	5'-0"	5'-0"	1'-6"	6-#6 EW BOT	
F84	7'-0"	7'-0"	1'-6"	8- #6 EA WAY BOT	
F96	8'-0"	8'-0"	1'-6"	9- #6 EA WAY TOP & BOT	
F108	9'-0"	9'-0"	1'-6"	10- #6 EA WAY TOP & BOT	
F132	11'-0"	11'-0"	2'-0"	11- #7 EA WAY TOP & BOT	
F144	12'-0"	12'-0"	2'-0"	12- #7 EA WAY TOP & BOT	
F168	14'-0"	14'-0"	2'-0"	13- #7 EA WAY TOP & BOT	

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS - PROGRESS
FEBRUARY 18, 2022

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INDIGENOUS DESIGN STUDIO +
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PROJECT NUMBER: 123-117
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SHEET TITLE

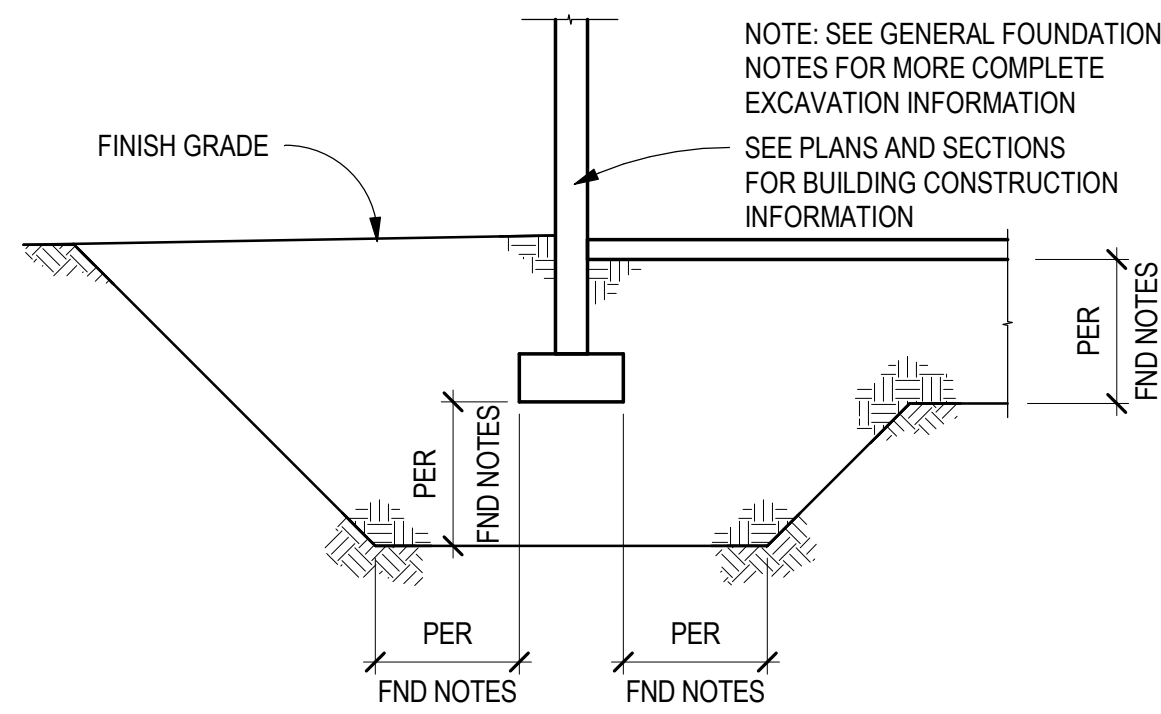
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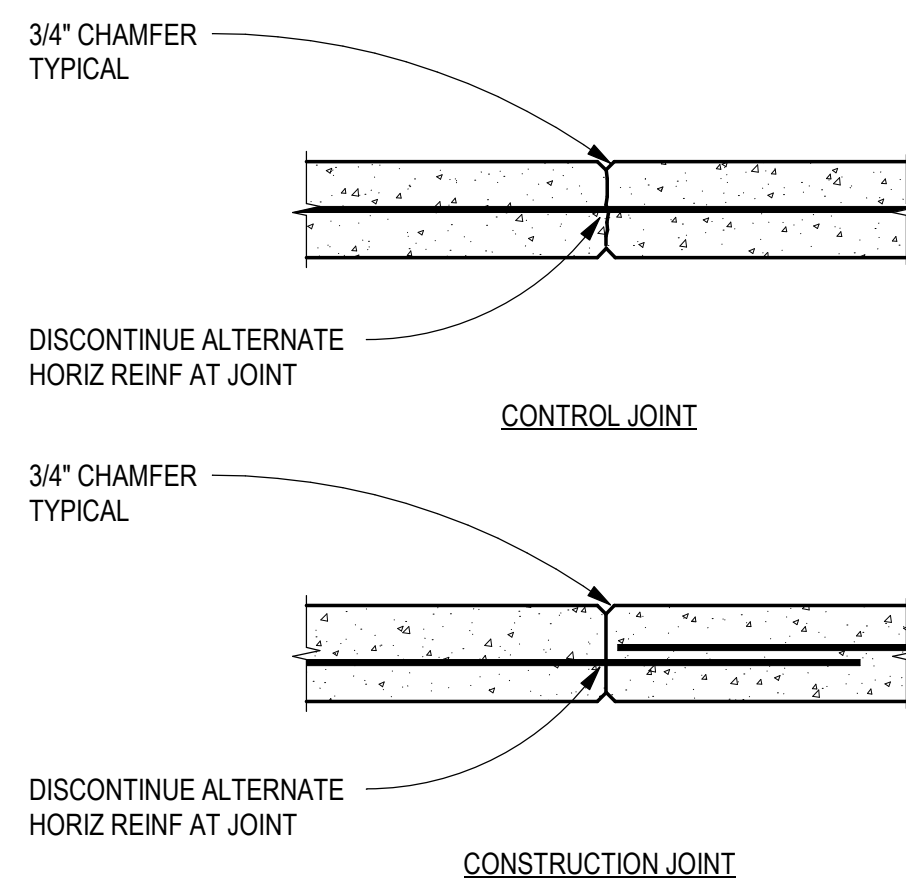
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Sequence of

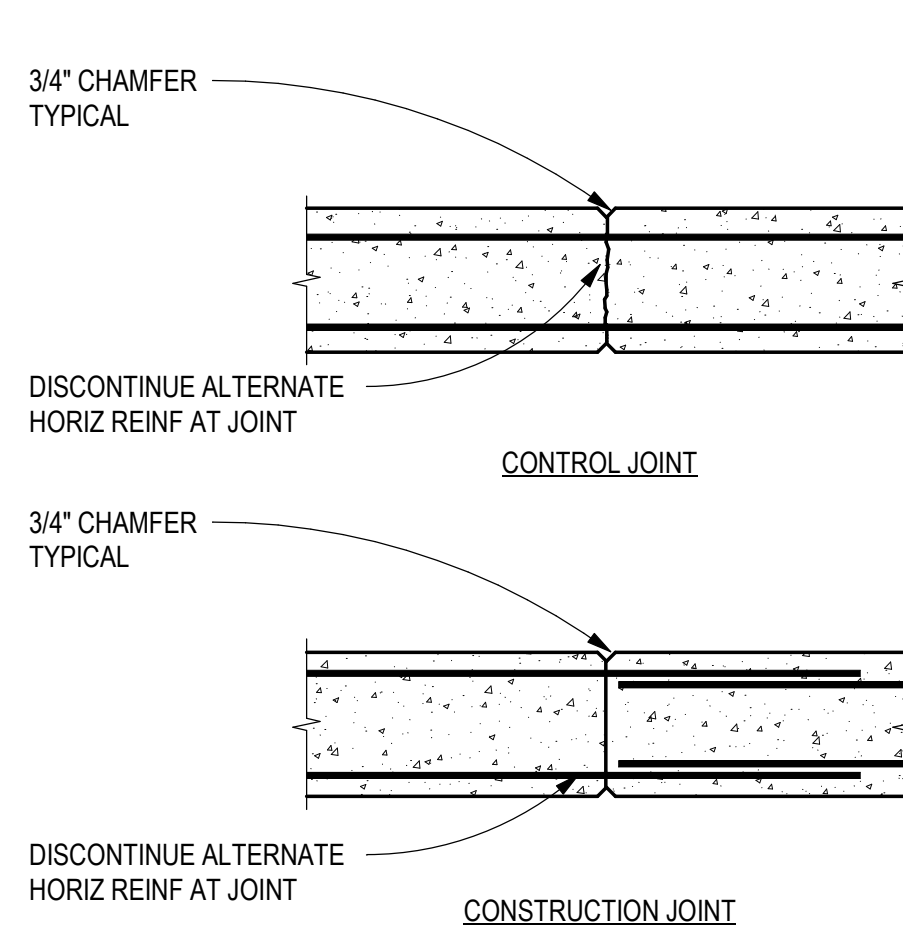
BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



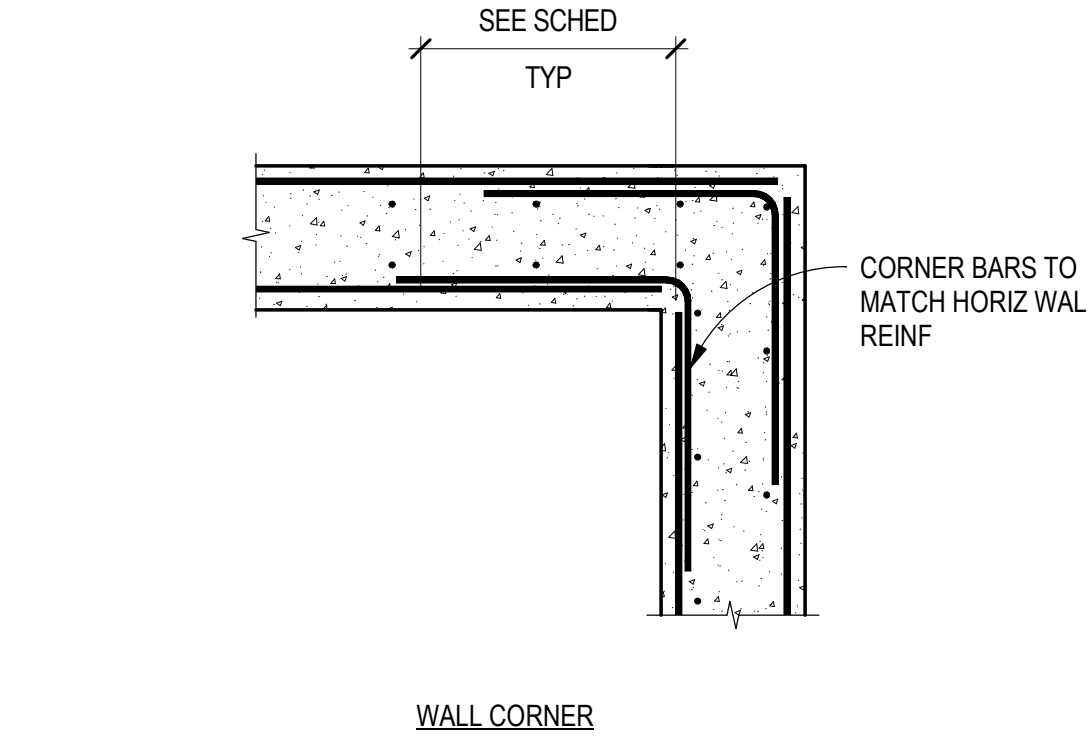
C1 TYPICAL FND EXCAVATION DETAIL
SCALE: NTS



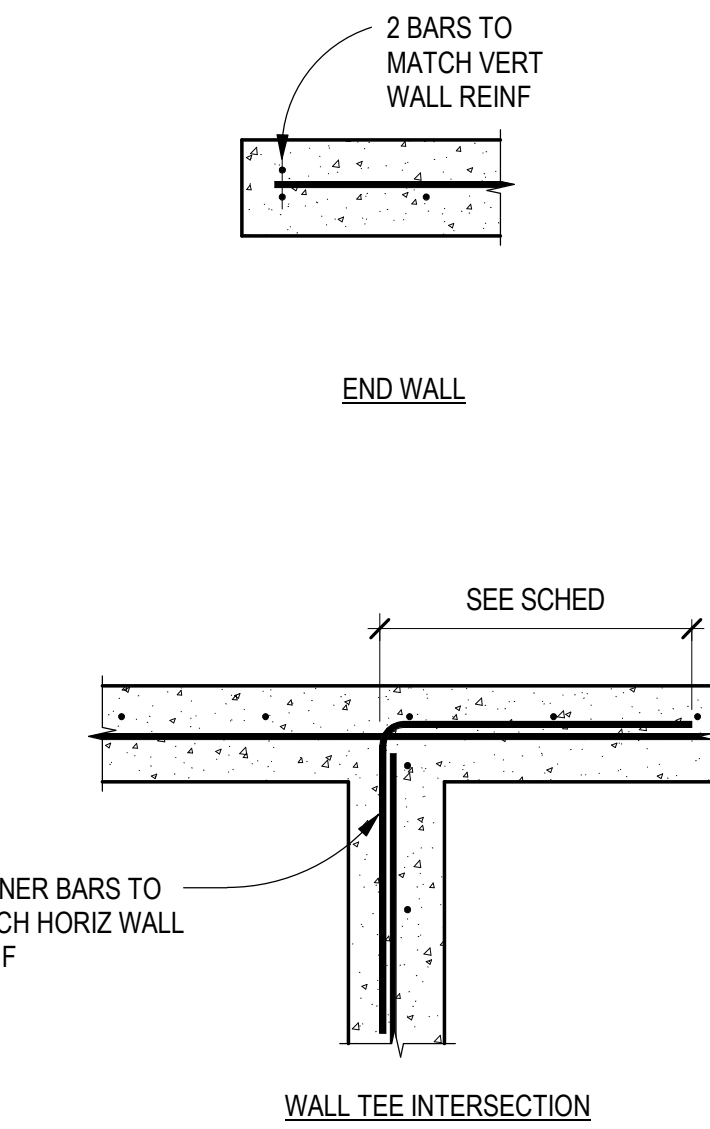
C2 TYPICAL WALL JOINT DETAIL
SCALE: NTS



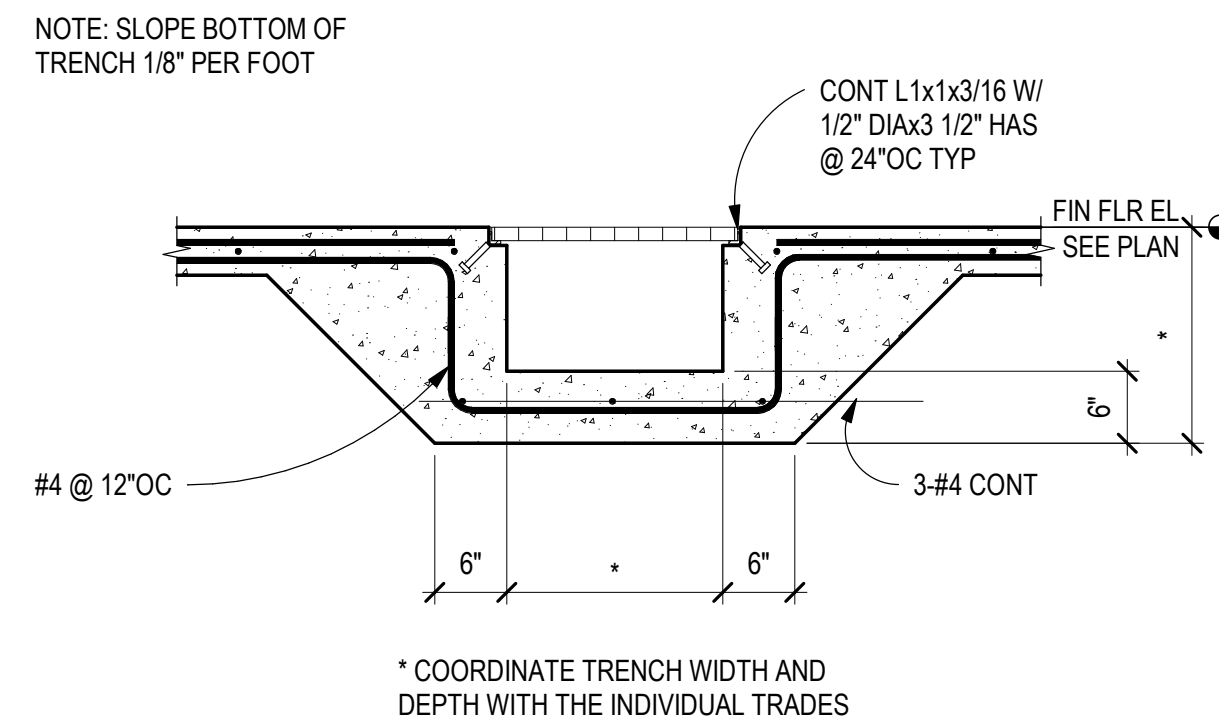
D2 TYPICAL WALL JOINT DETAIL
SCALE: NTS



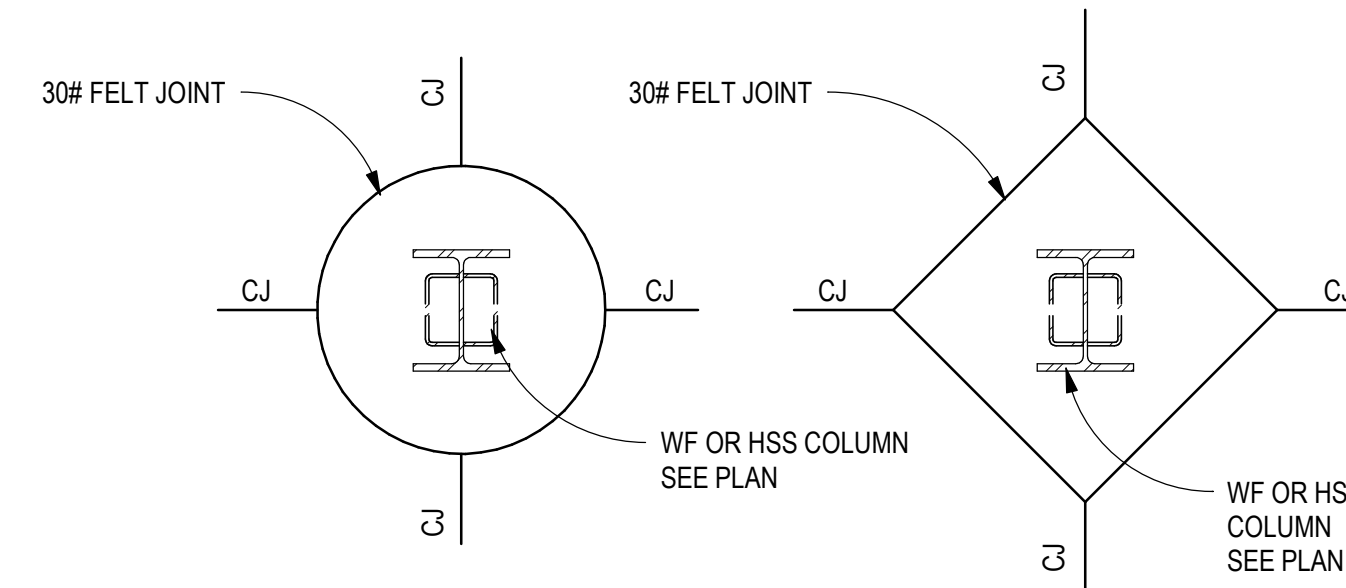
C3 TYPICAL DOUBLE MAT WALL REINF
SCALE: NTS



B4 TYPICAL TRENCH SECTION
SCALE: NTS



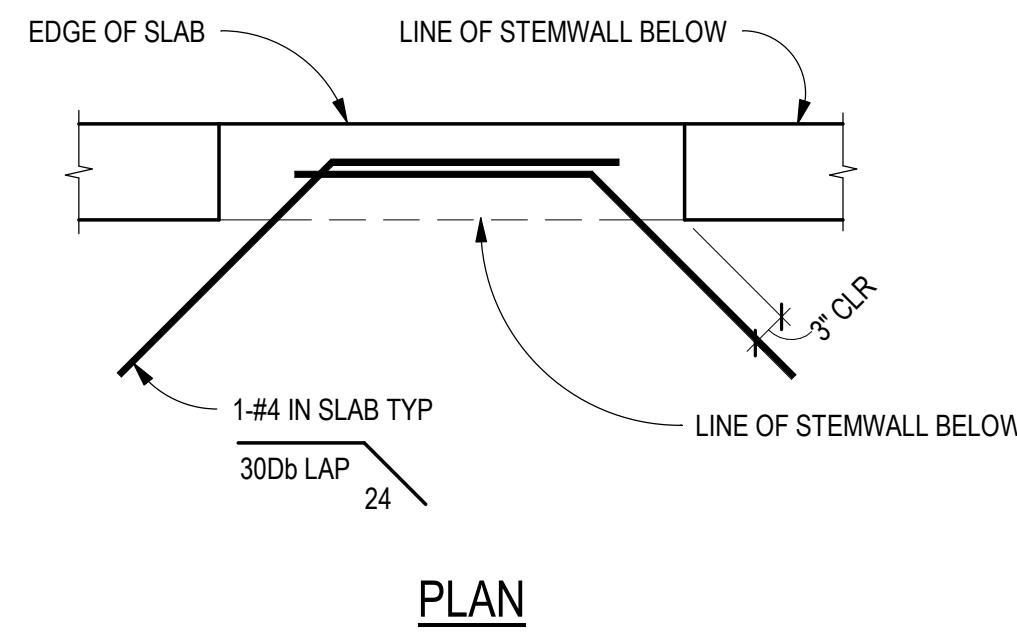
C4 TYPICAL DEPRESSED SLAB
SCALE: 3/4\"/>



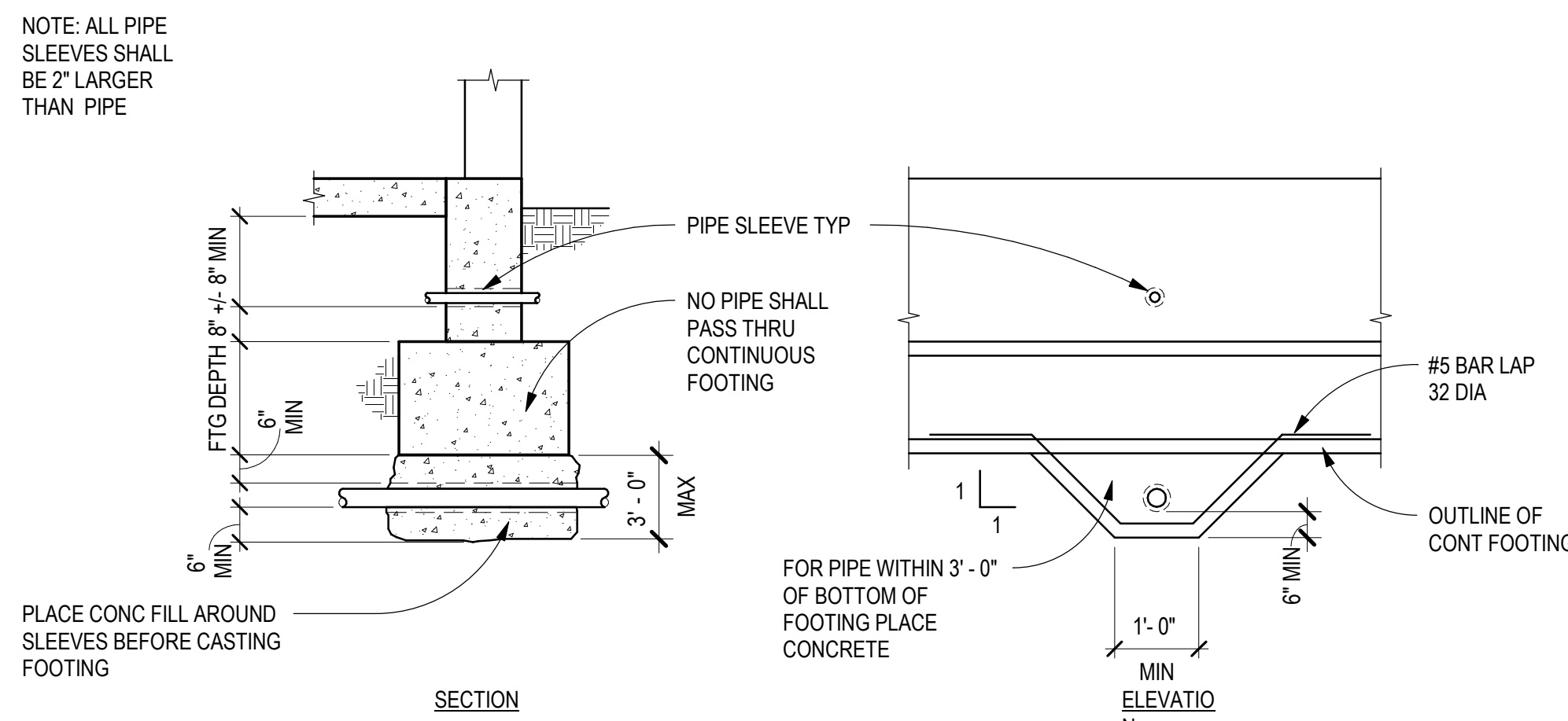
D5 TYPICAL SLAB JOINT
SCALE: NTS

NOTE: CONTRACTOR'S OPTION FOR TYPE TO BE USED. PLACE BLOCKOUTS AT ALL COLUMNS.
NOTE: ENLARGED BLOCKOUTS MAY BE REQUIRED AT BRACED FRAME LOCATIONS FOR GUSSET PLATE CLEARANCE.

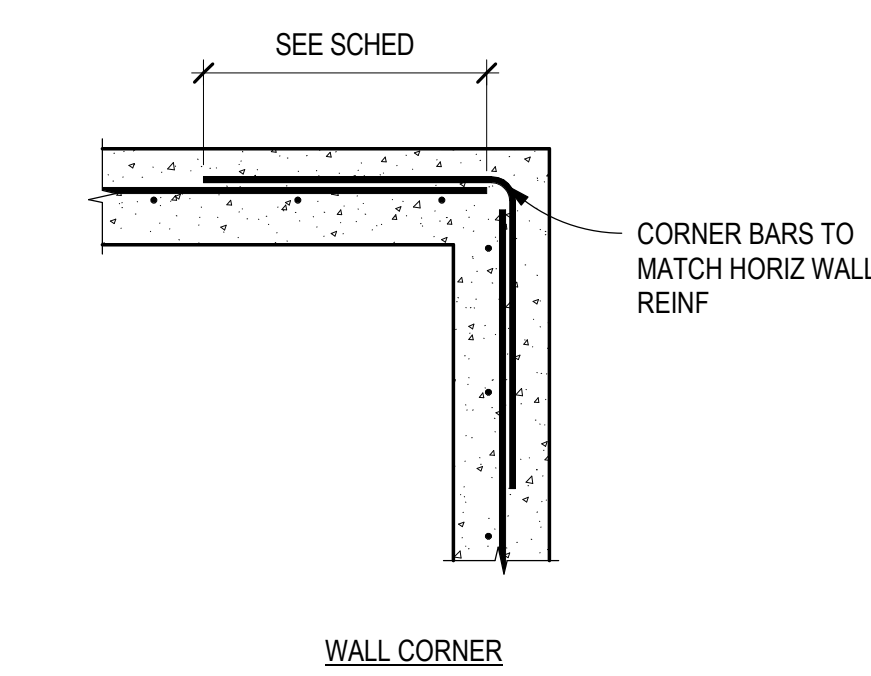
C5 TYPICAL COLUMN BLOCKOUT
SCALE: NTS



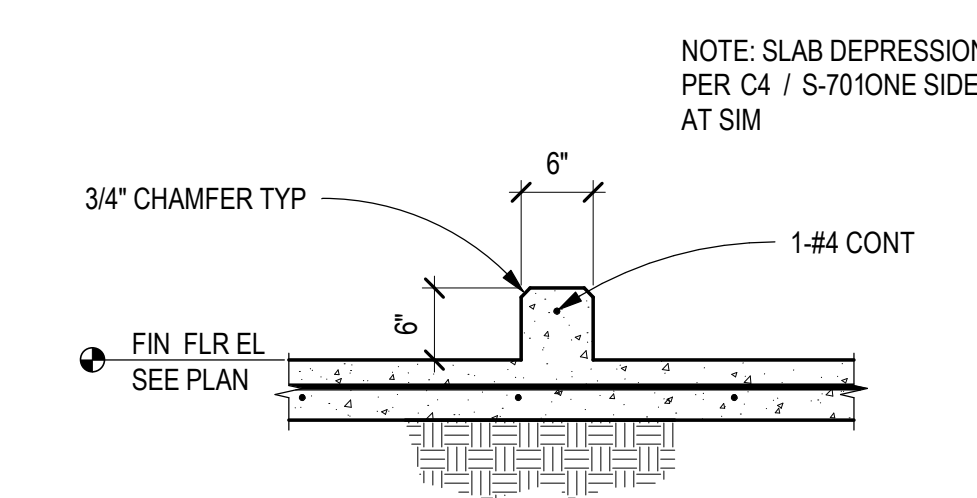
B5 TYPICAL SLAB REINF AT OPNG
SCALE: NTS



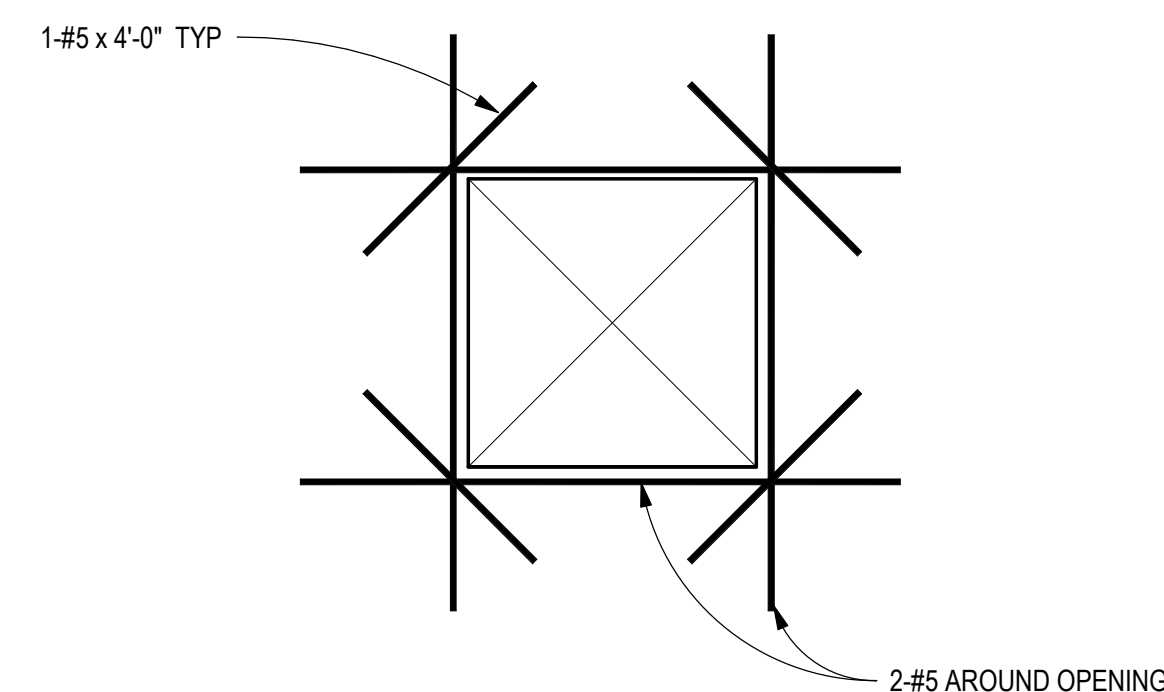
A1 TYPICAL PIPE PENETRATION AND TRENCH DETAILS
SCALE: NTS



A3 TYPICAL SINGLE MAT WALL REINF
SCALE: NTS



A4 TYPICAL CURB SECTION
SCALE: NTS



A5 TYPICAL OPNG IN CONC WALL DETAIL
SCALE: NTS

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
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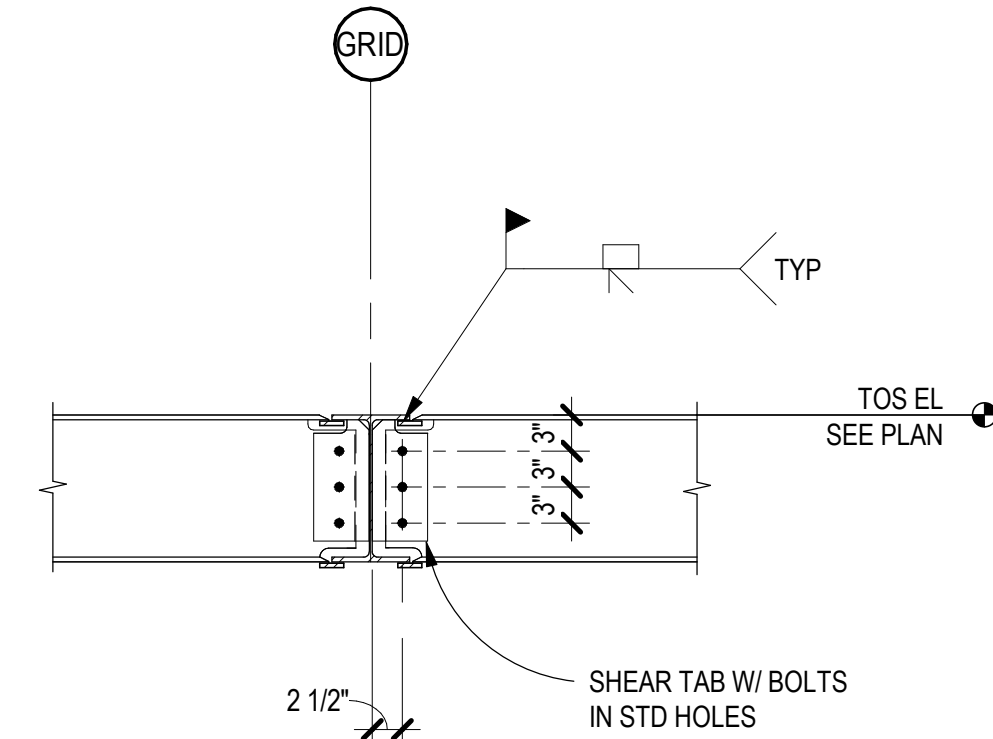
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**TYPICAL
CONCRETE
DETAILS**

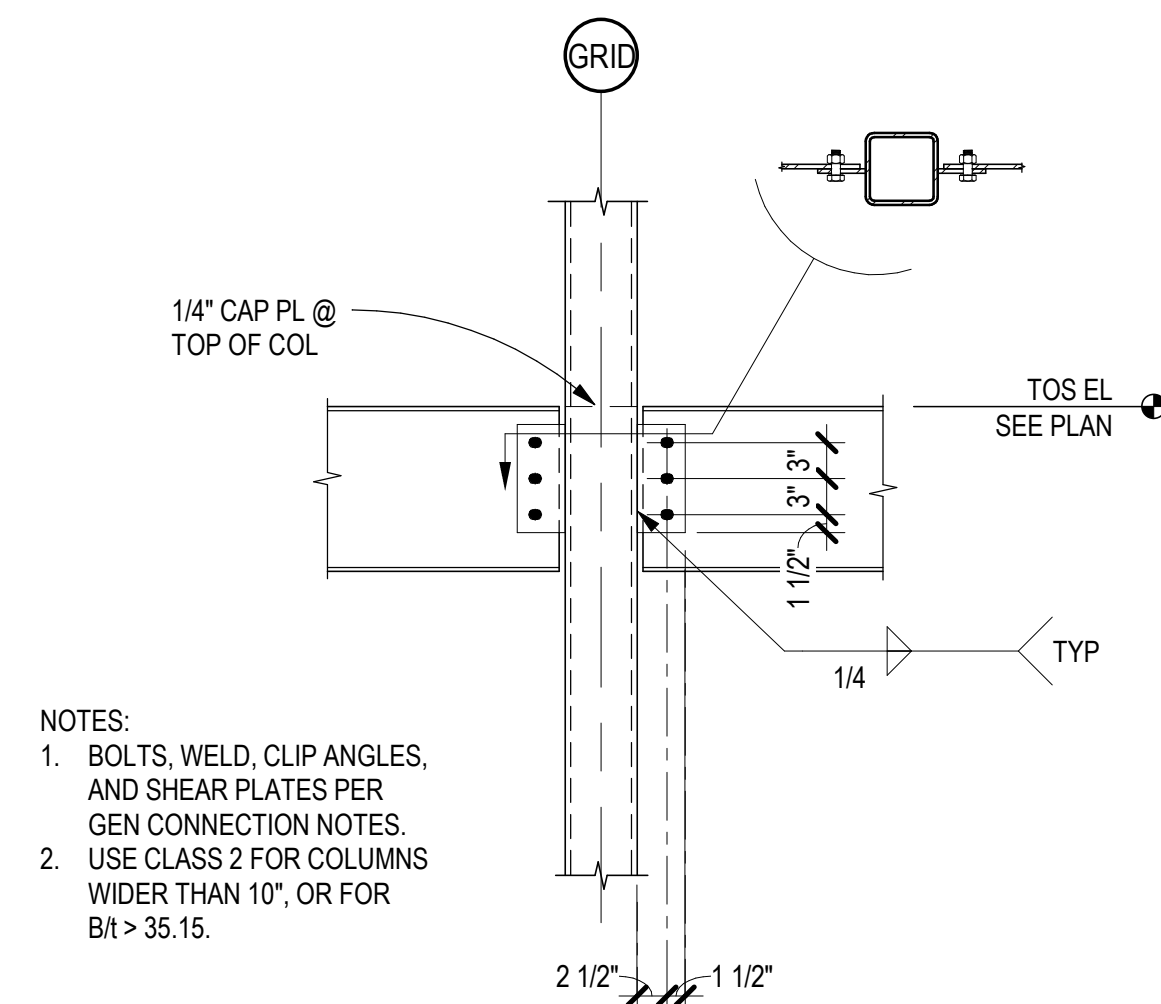
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S-701

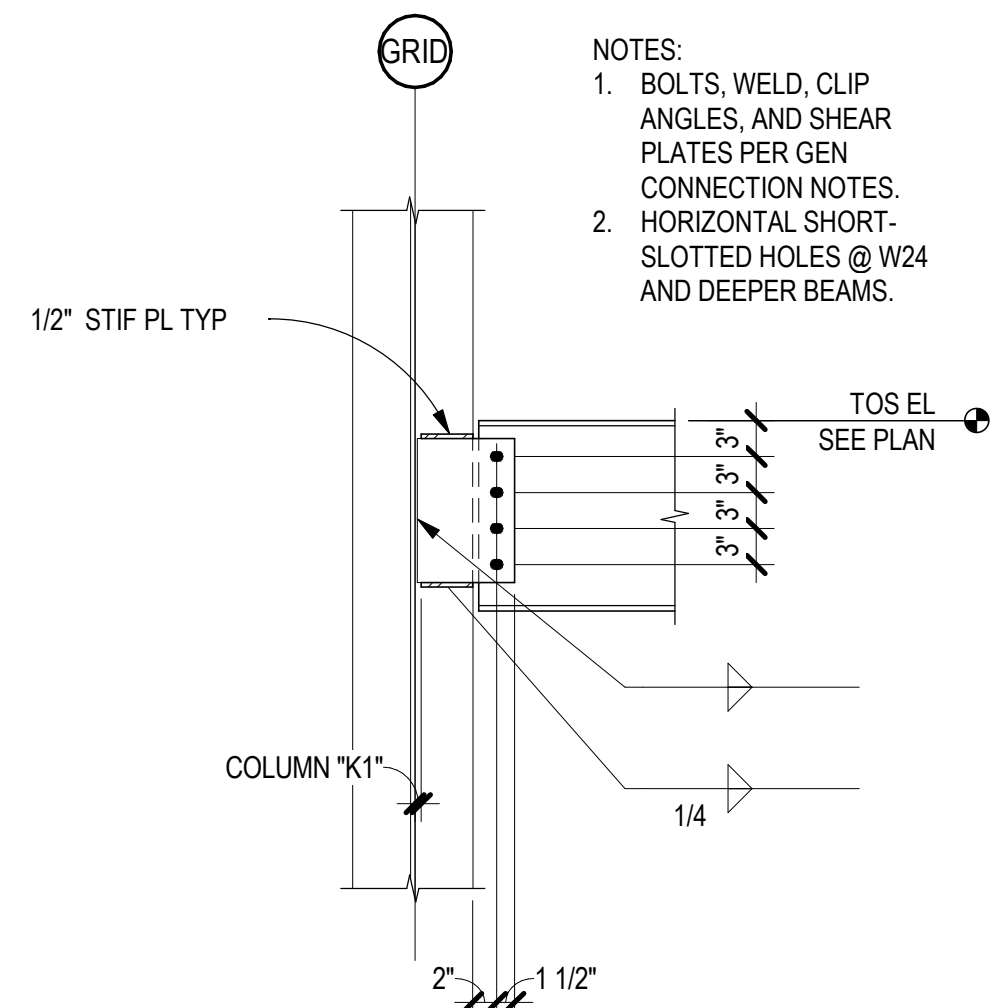
Sequence of



E5 BEAM TO BEAM MOMENT CONN
SCALE: 3/4" = 1'-0"



D5 BEAM TO HSS COLUMN (CLASS 1)
SCALE: 3/4" = 1'-0"



C3 BEAM TO COLUMN WEB (CLASS 2)
SCALE: 3/4" = 1'-0"

- A5 GENERAL STEEL CONN NOTES**
SCALE: 3/4" = 1'-0"

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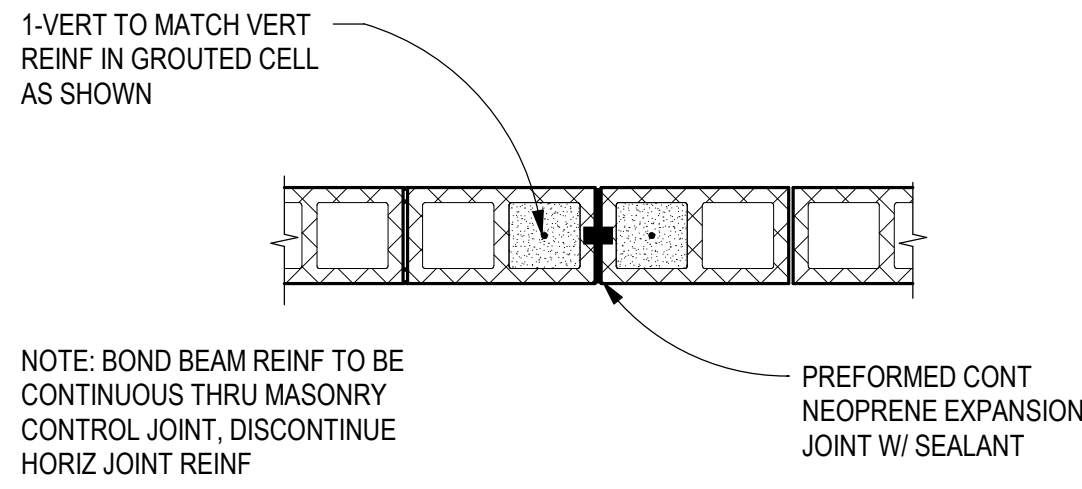
**STEEL
CONNECTION
DETAILS**

SHEET NUMBER

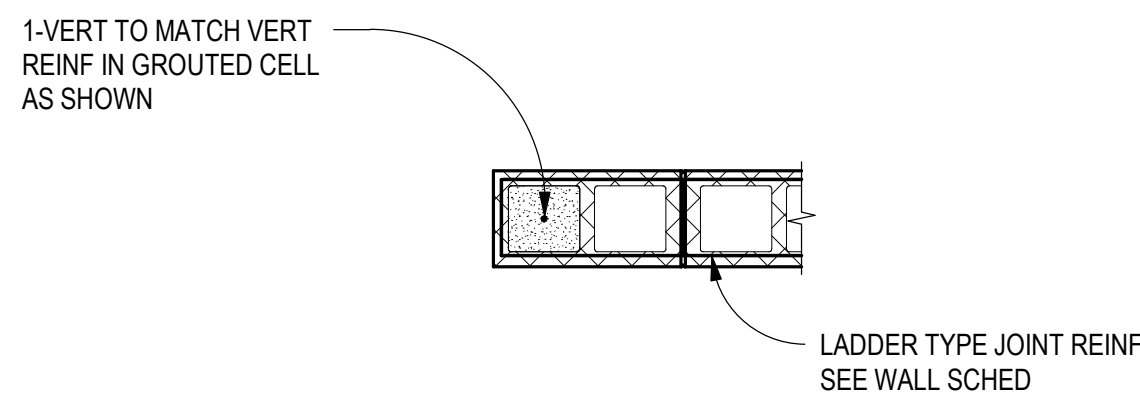
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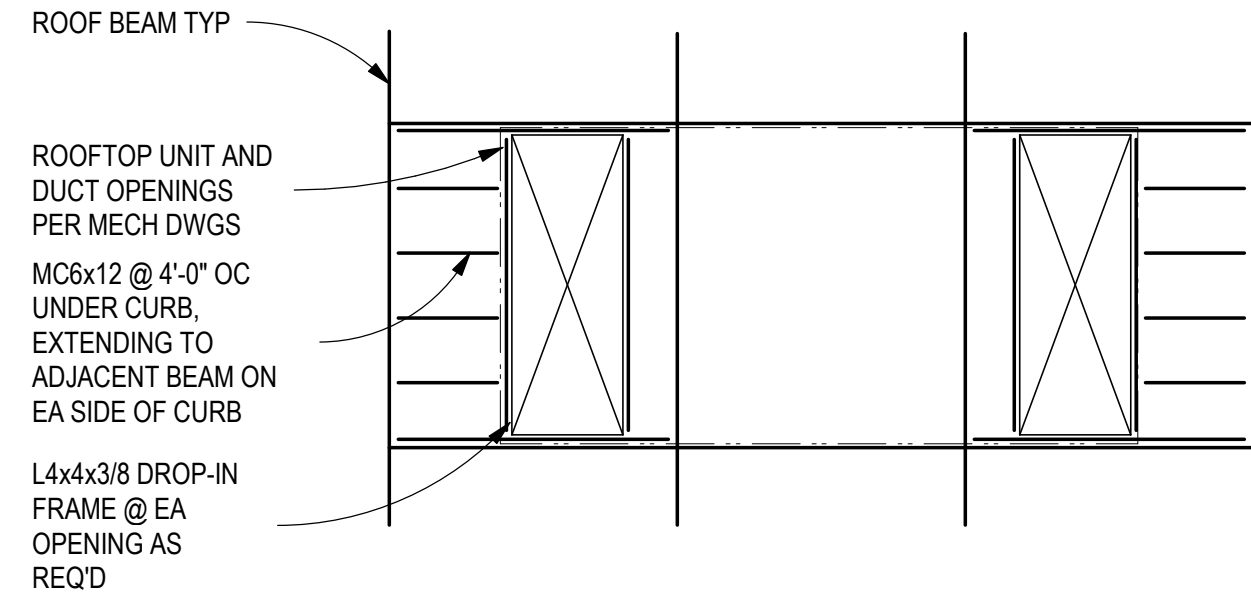
BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt



E2 TYPICAL CMU CNRTL JOINT (MCJ)
SCALE: 3/4" = 1'-0"

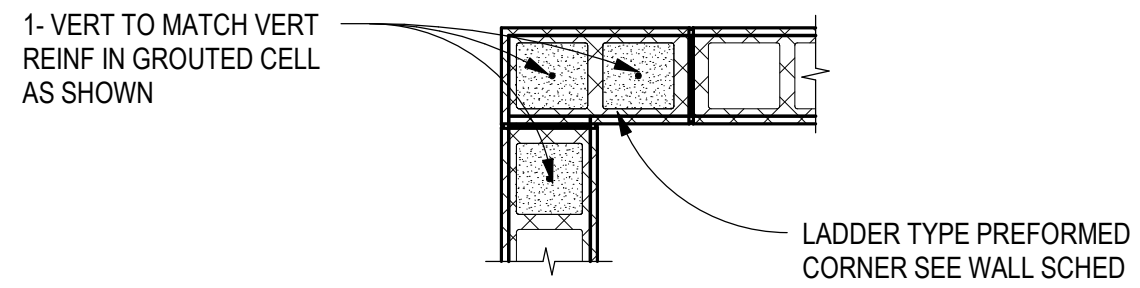


E4 UNIT SUPPORT PARALLEL TO BEAMS
SCALE: 3/4" = 1'-0"

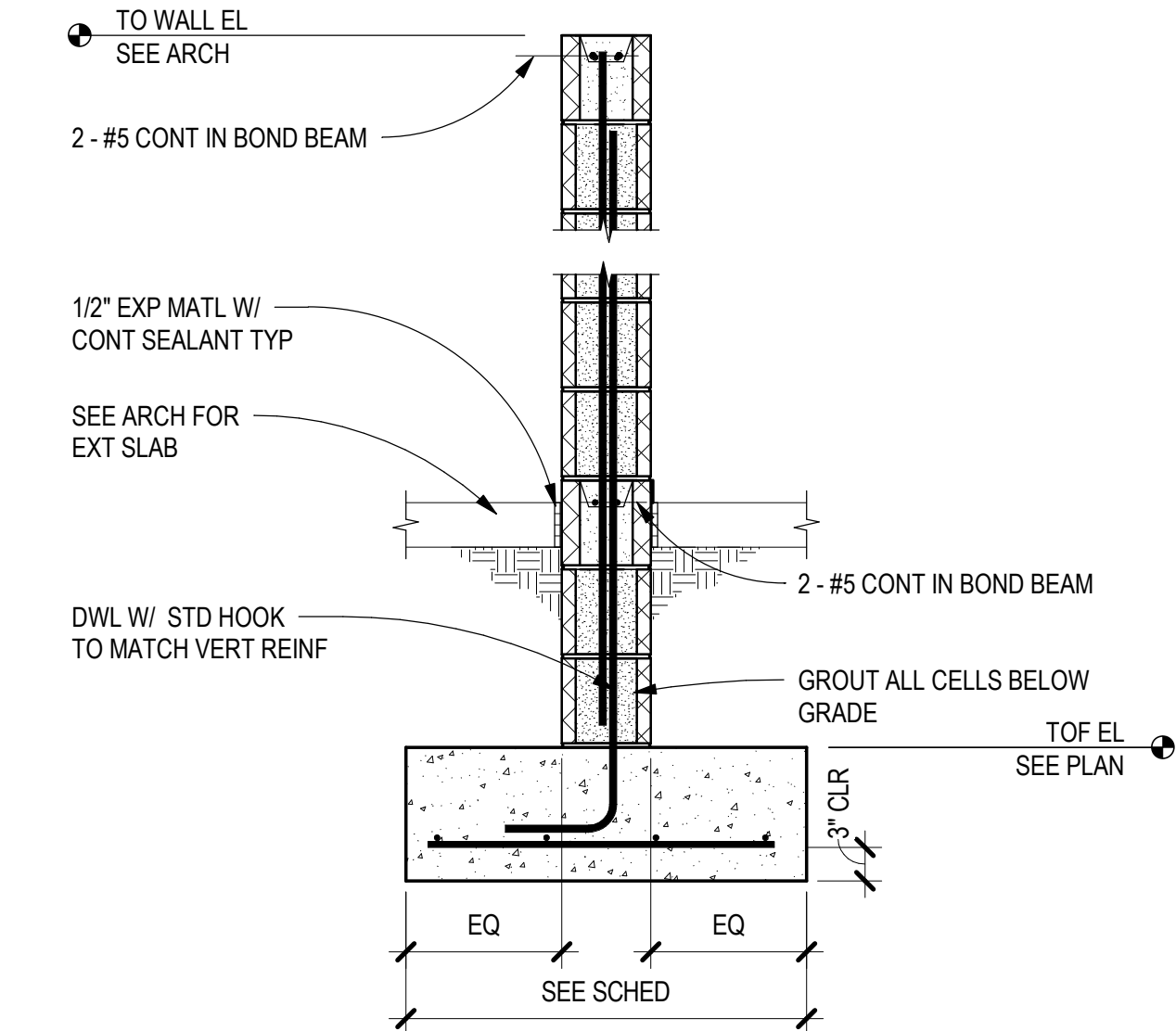


E5 UNIT SUPPORT PERPENDICULAR TO BEAMS
SCALE: 3/4" = 1'-0"

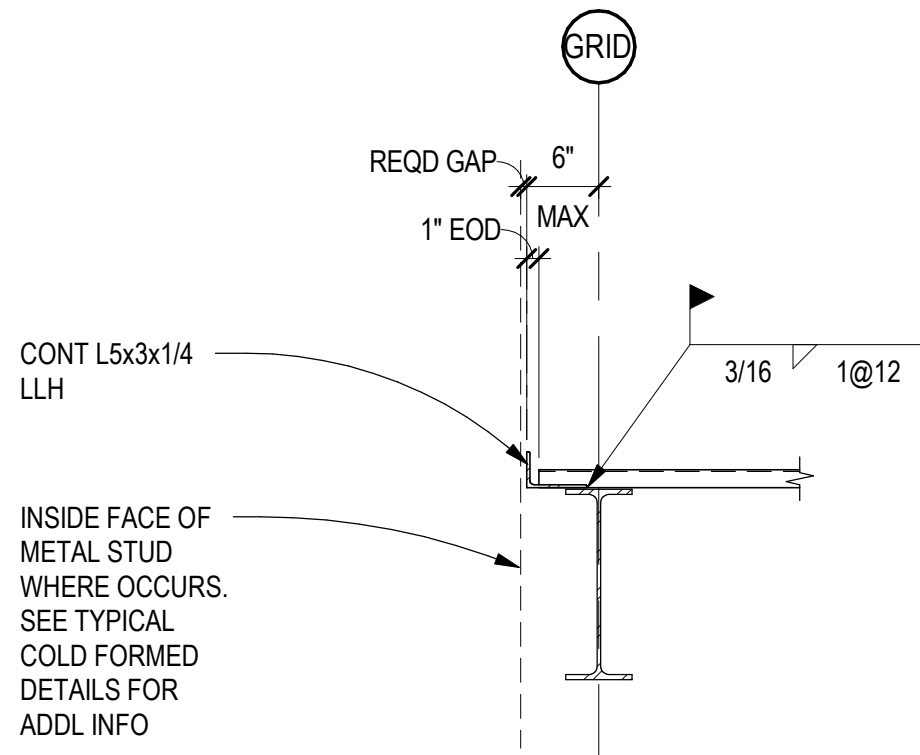
JOINT REINFORCING AT WALL END



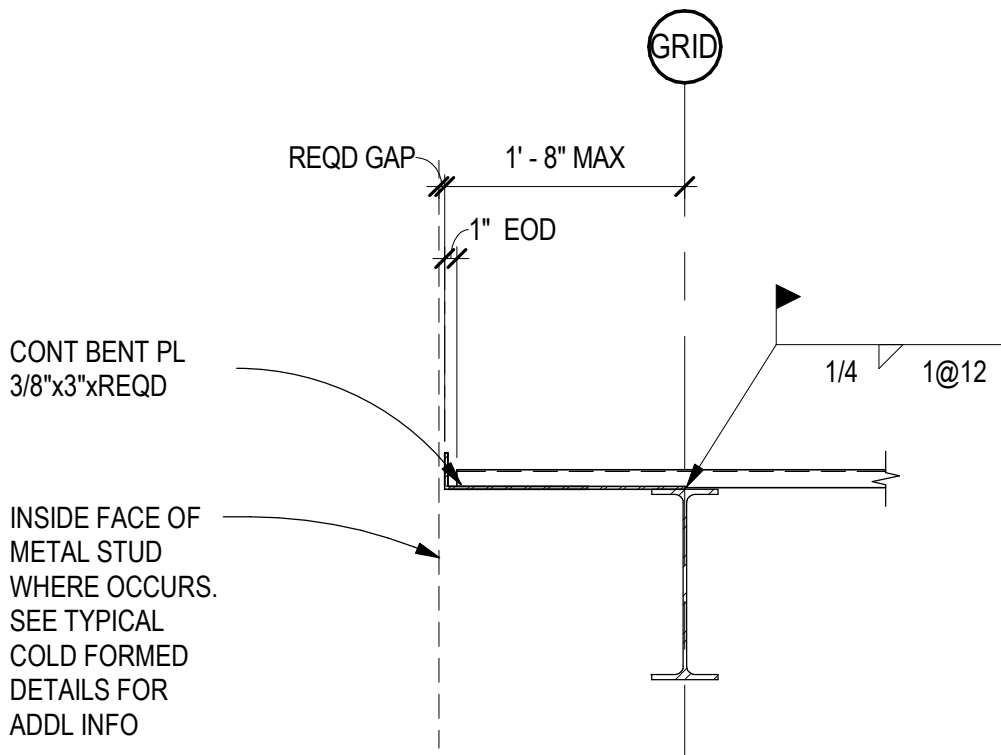
B2 TYPICAL 8" CMU PLAN DETAILS
SCALE: 3/4" = 1'-0"



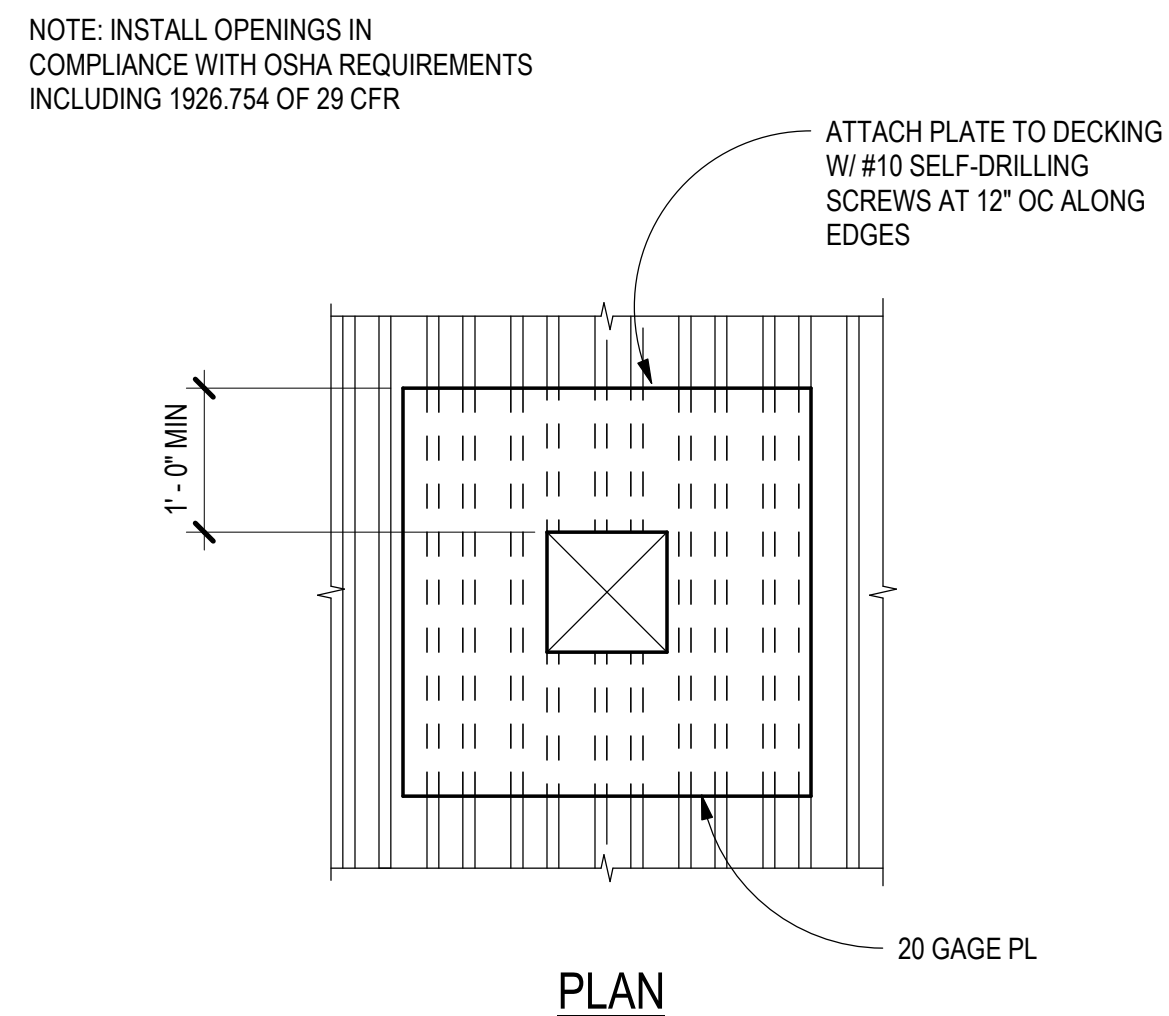
A2 8" CMU SITE WALL SECTION
SCALE: 3/4" = 1'-0"



A3 TYPICAL ROOF DECK EDGE
SCALE: 3/4" = 1'-0"



A5 TYPICAL ROOF OPENING 0"-12"
SCALE: 3/4" = 1'-0"



B5 TYPICAL ROOF OPNG LARGER THAN 12"
SCALE: 3/4" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
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**TYPICAL FRAMING
DETAILS**

SHEET NUMBER

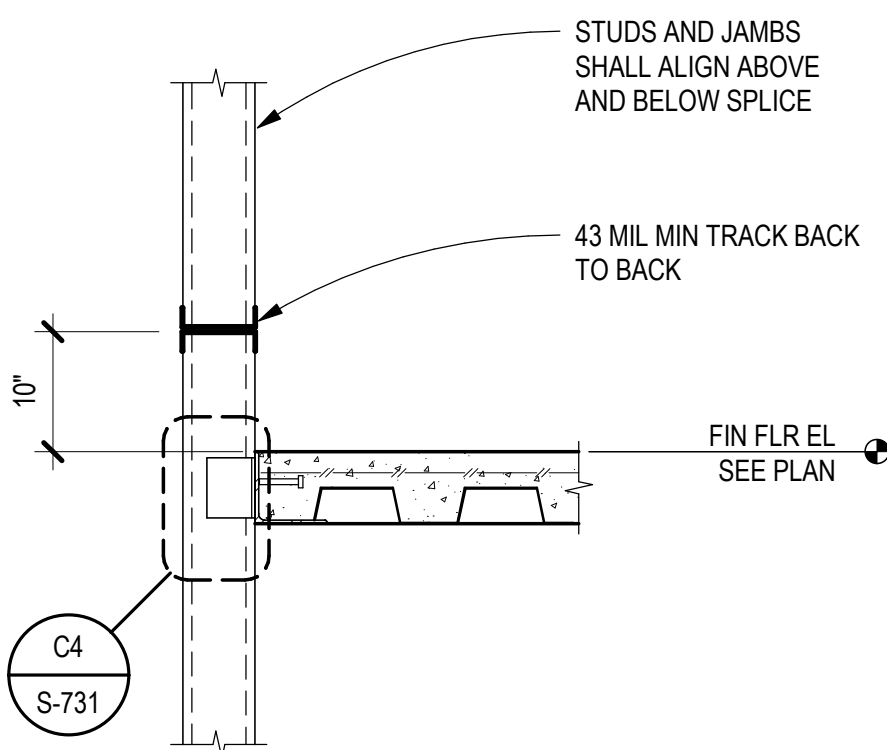
S-712

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory STRUC.rvt

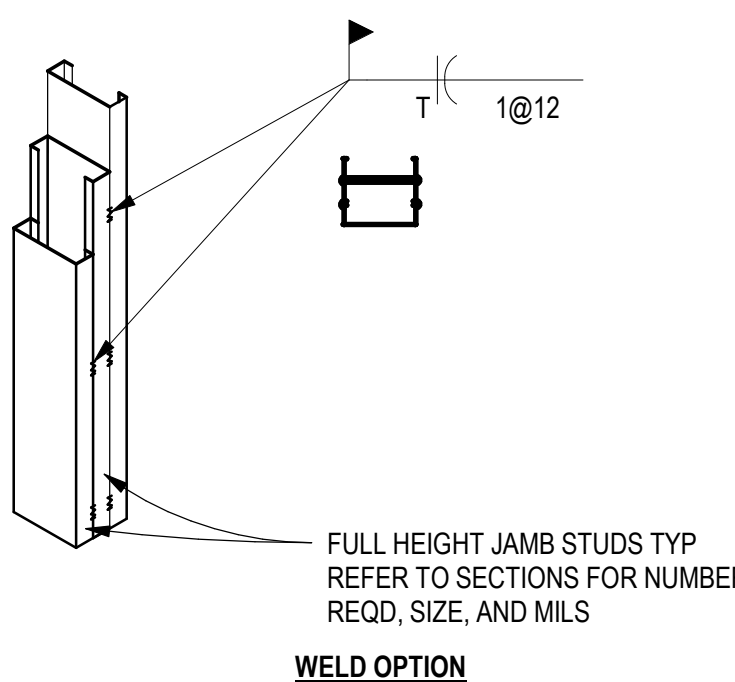
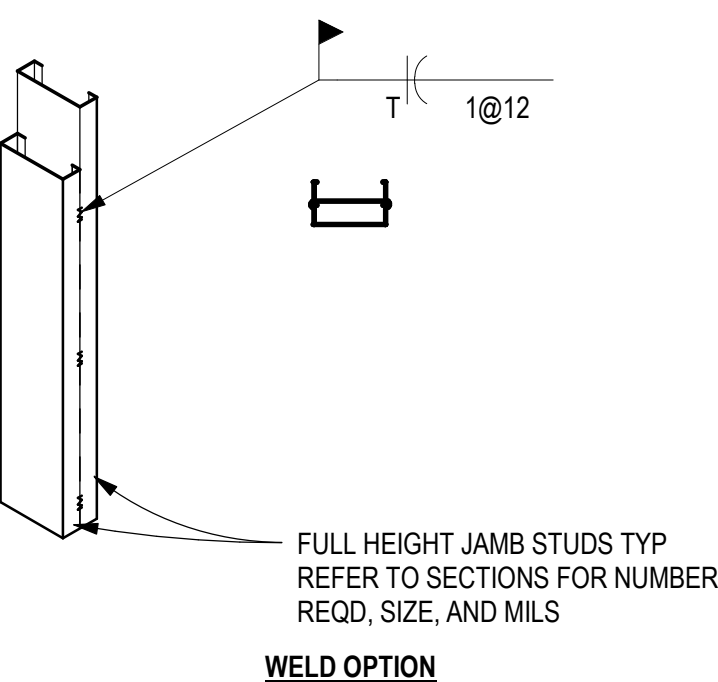
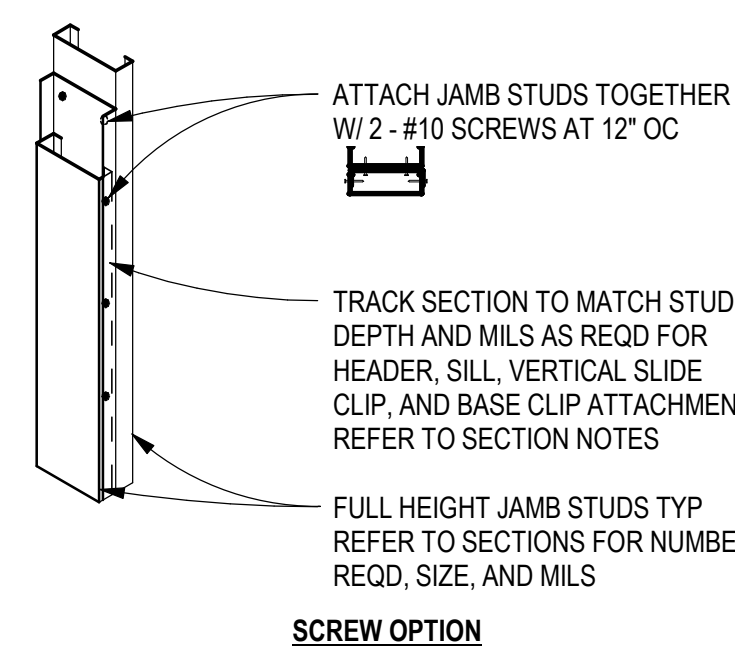
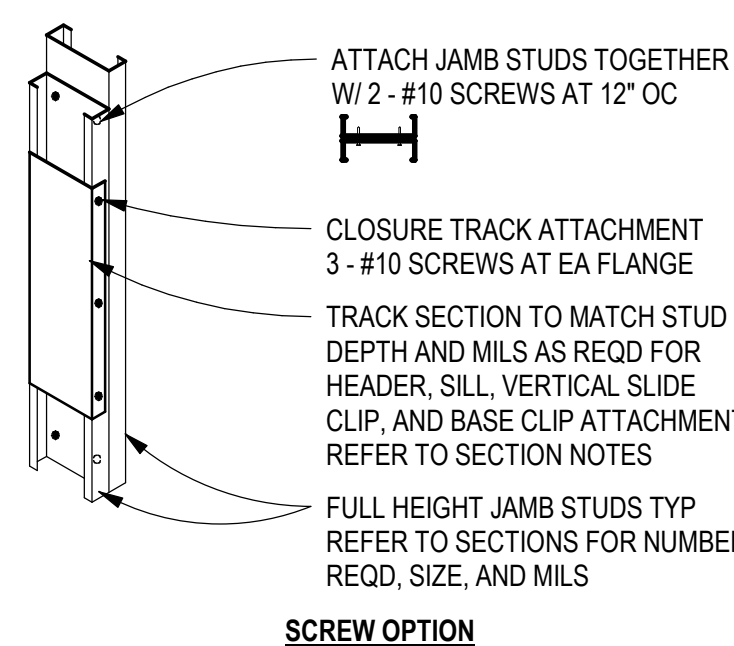
A1 TYPICAL STUD SPLICE DETAIL

SCALE: NTS



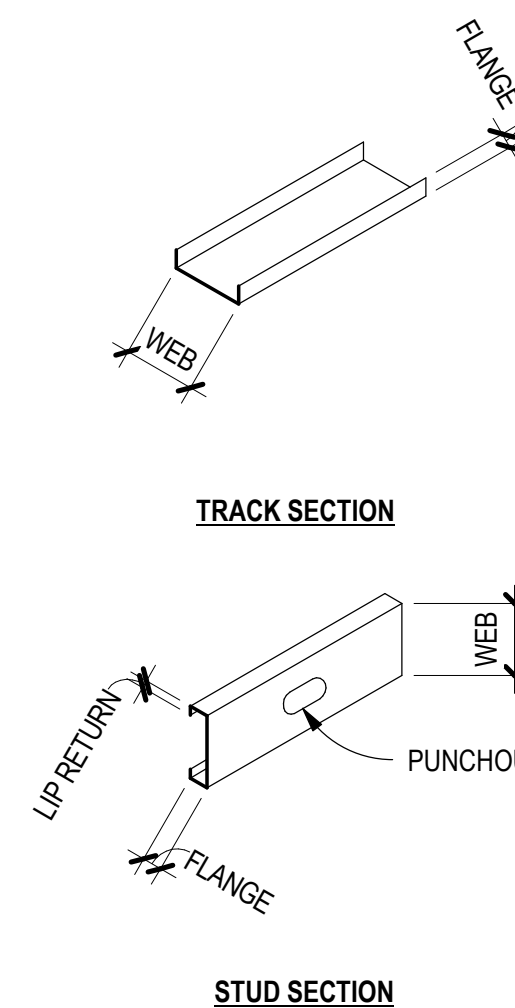
A2 TYPICAL STUD JAMB ATTACHMENT DETAILS

SCALE: NTS



A4 TYPICAL COLD-FORMED MEMBER DESIGNATION

SCALE: NTS



MEMBER WEB IN INCHES
(IE. - 600 = 6")
(IE. - 362 = 3 5/8")
(IE. - 250 = 2 1/2")

MEMBER TYPE
S = STUD
T = TRACK

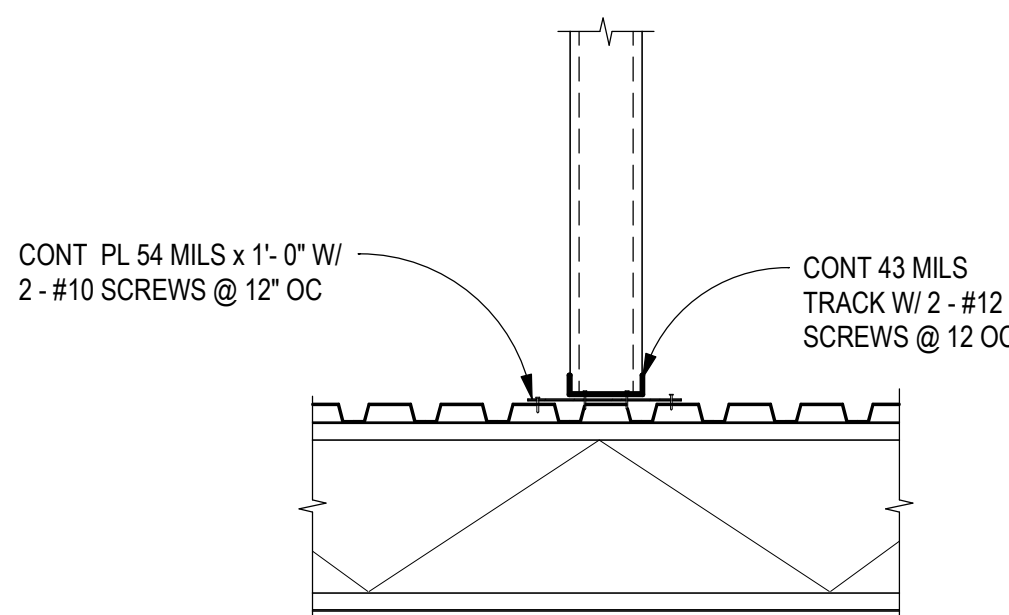
MEMBER THICKNESS IN MILS
GRADE OF STEEL (ONLY SHOWN WHEN MEMBER IS 50 KSI)
FLANGE WIDTH OF MEMBER IN INCHES
(IE. - 162 = 1 5/8")
(IE. - 200 = 2")

MILS TO GAGE CONVERSION CHART

MILS	GAGE
33 MILS	20 GAGE
43 MILS	18 GAGE
54 MILS	16 GAGE
68 MILS	14 GAGE
97 MILS	12 GAGE

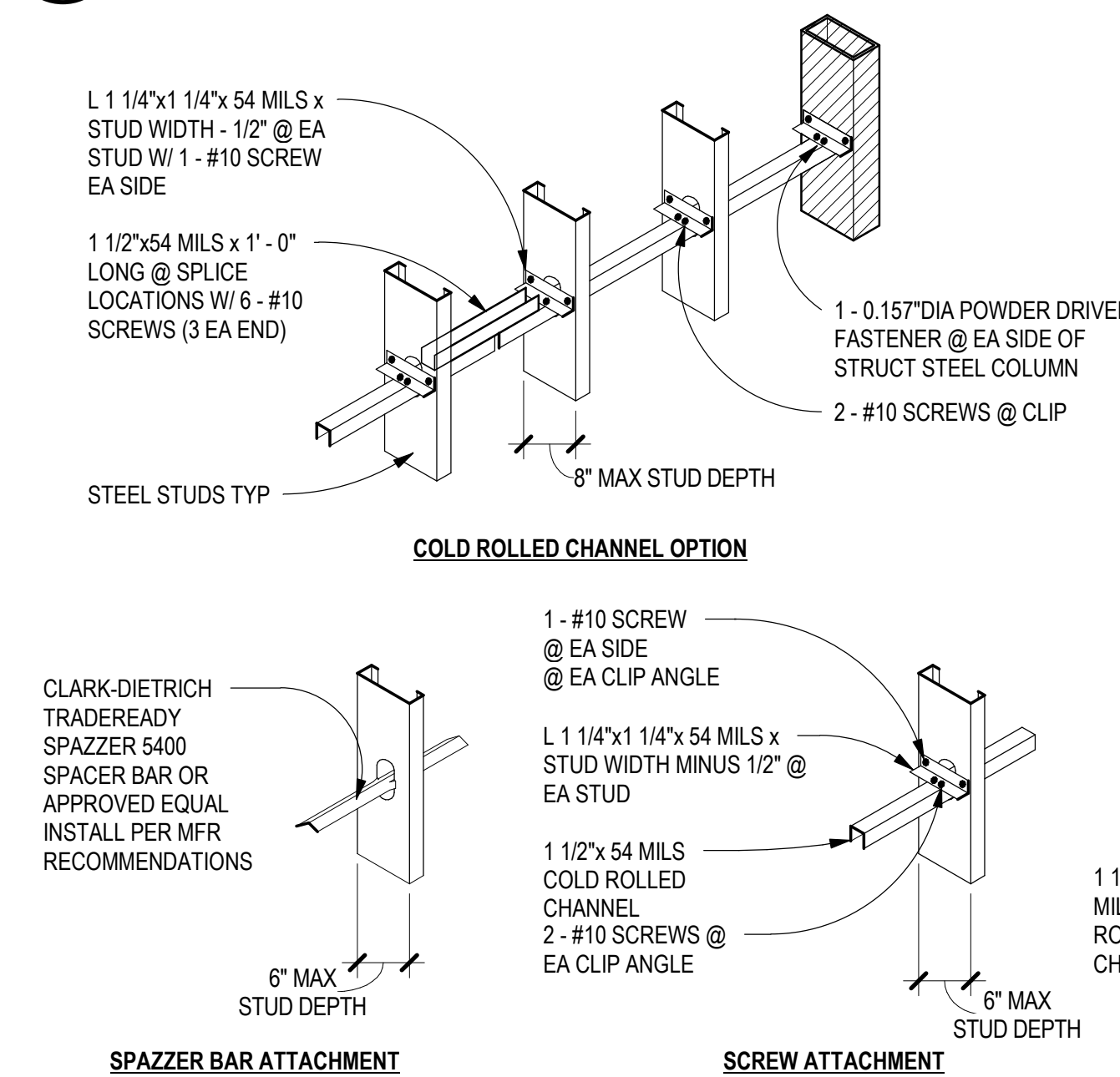
B2 TYPICAL STUD AT METAL DECK

SCALE: 3/4" = 1'-0"



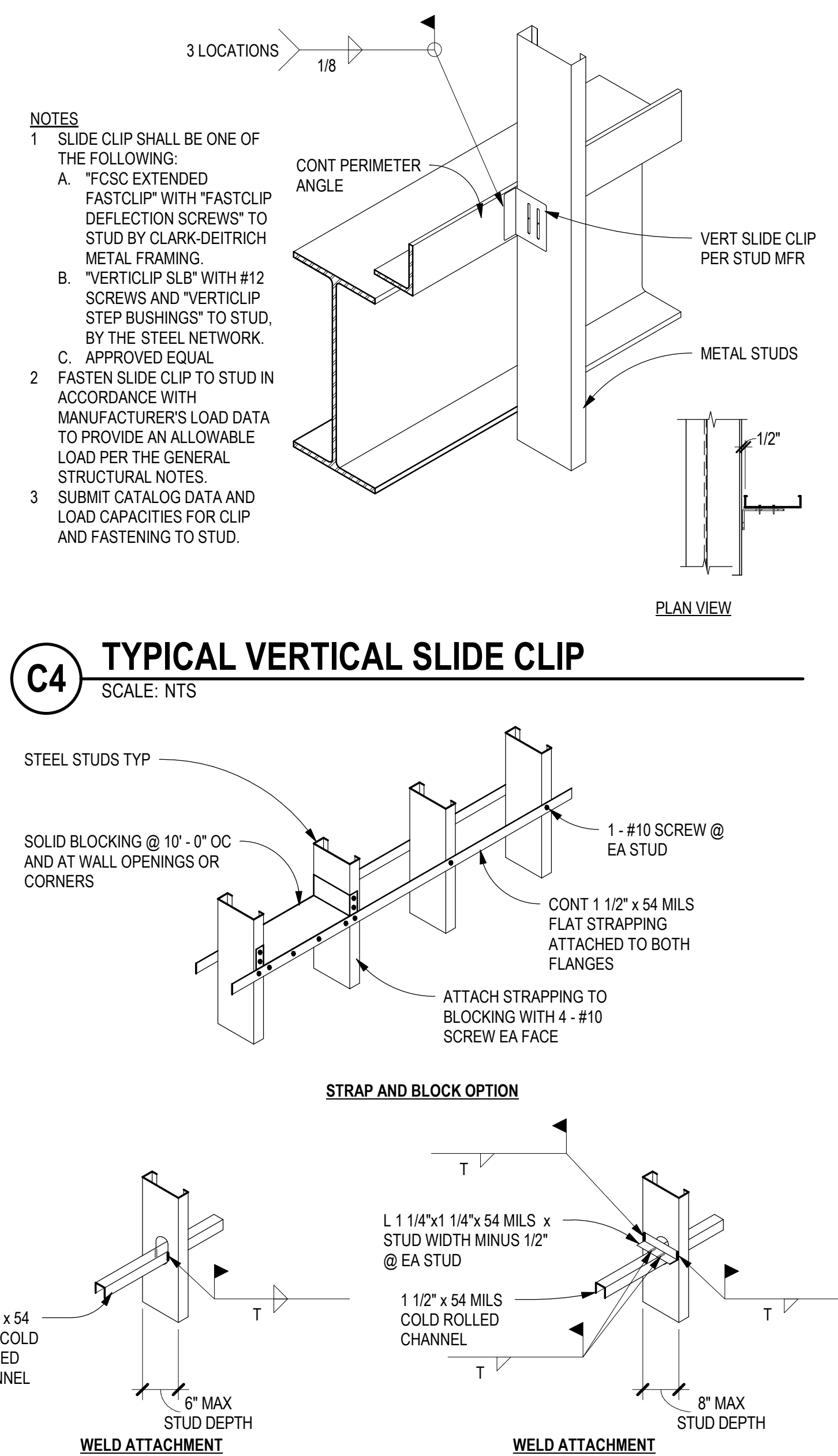
B3 TYPICAL BRIDGING DETAILS

SCALE: NTS



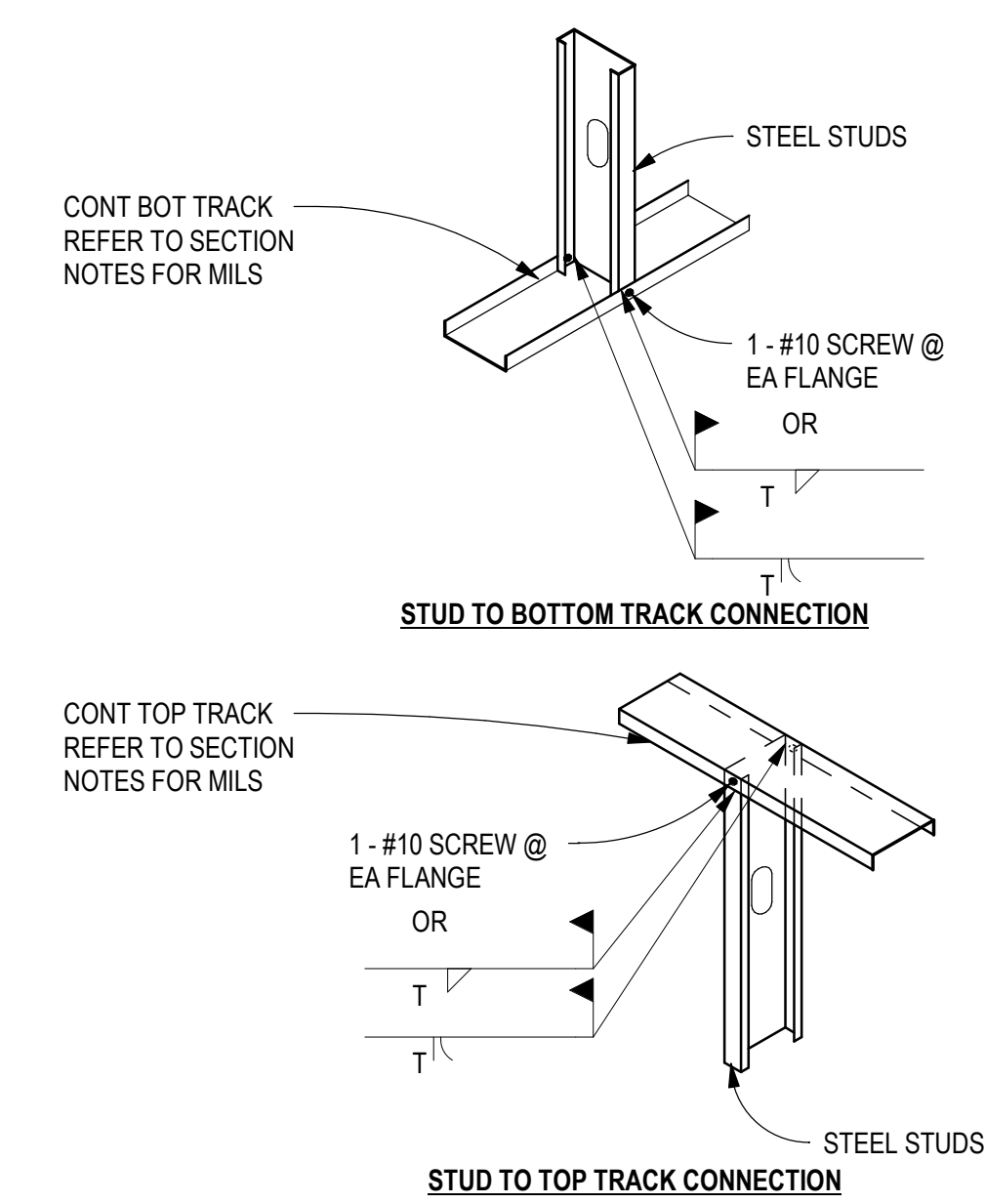
C4 TYPICAL VERTICAL SLIDE CLIP

SCALE: NTS



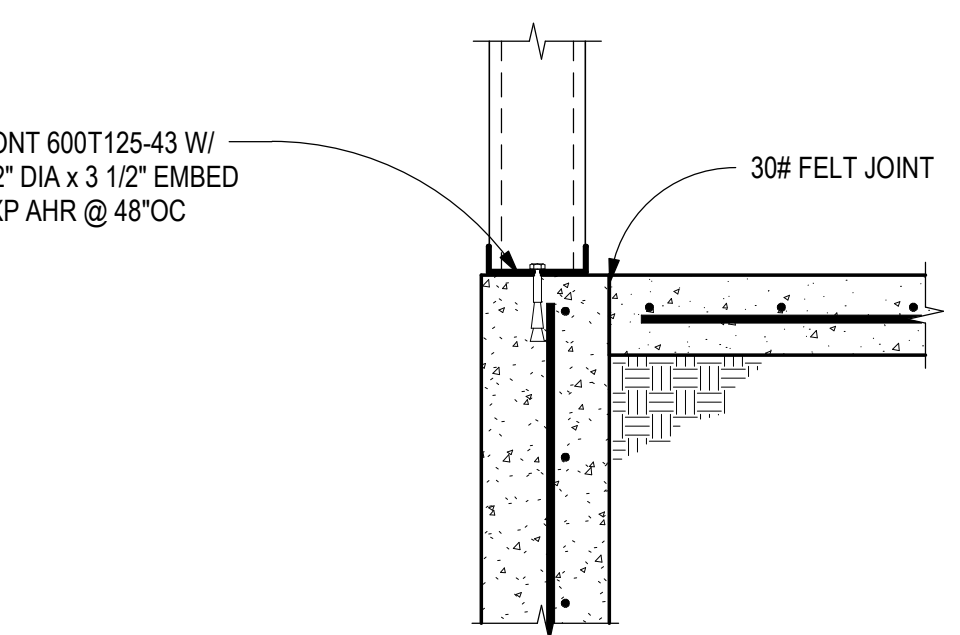
C5 TYPICAL STUDS AT STEM WALL

SCALE: 1" = 1'-0"



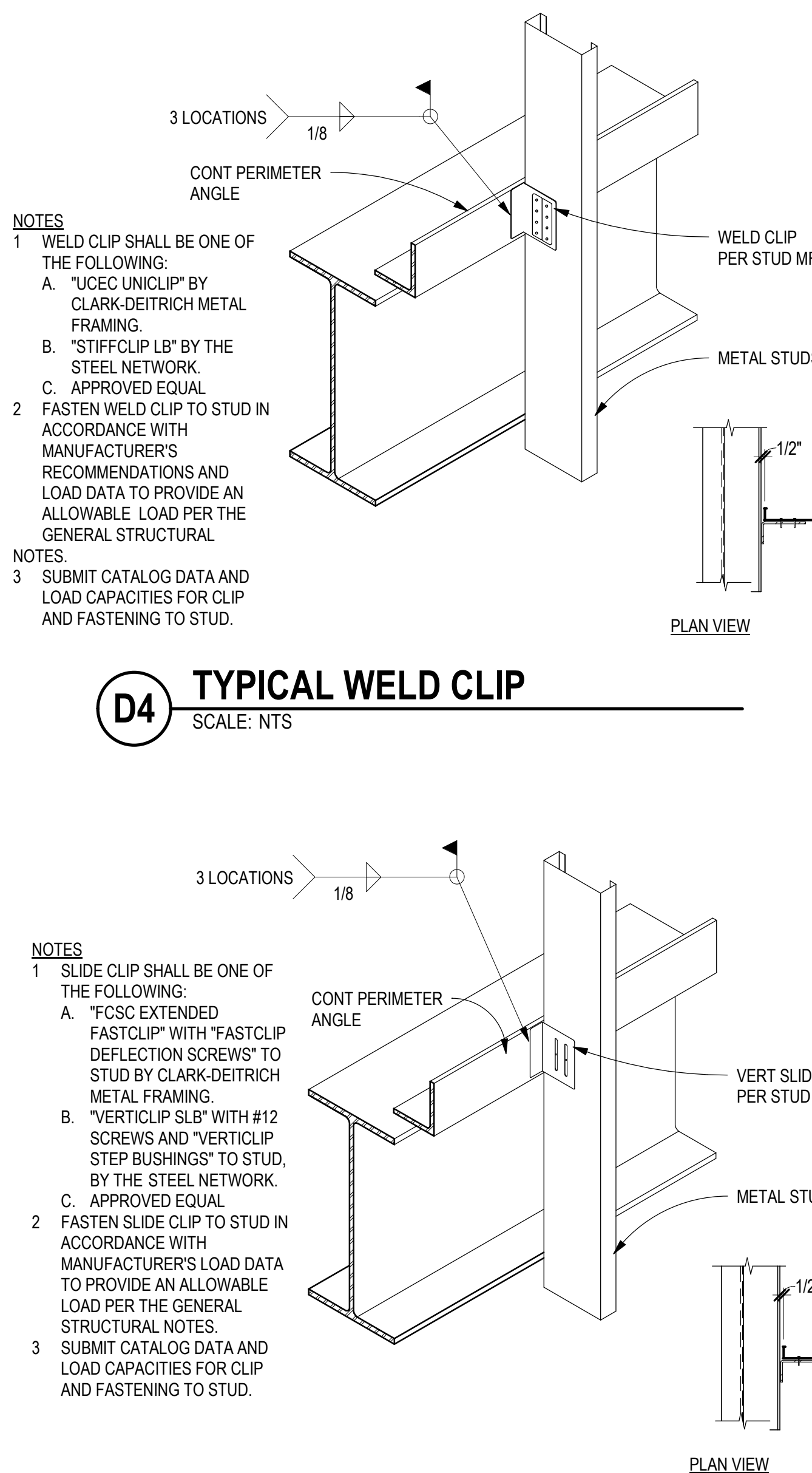
B5 TYPICAL STUDS TO TRACK DETAIL

SCALE: NTS



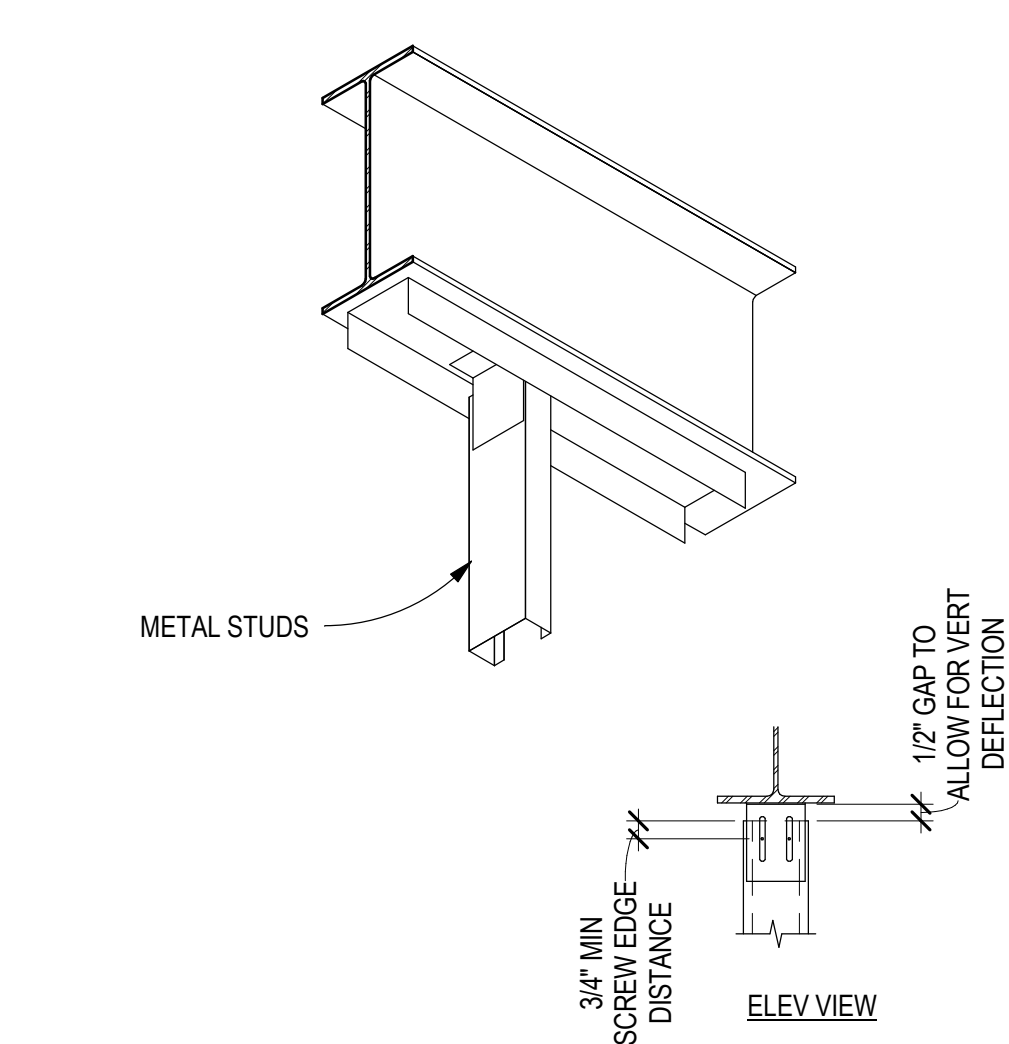
D4 TYPICAL WELD CLIP

SCALE: NTS



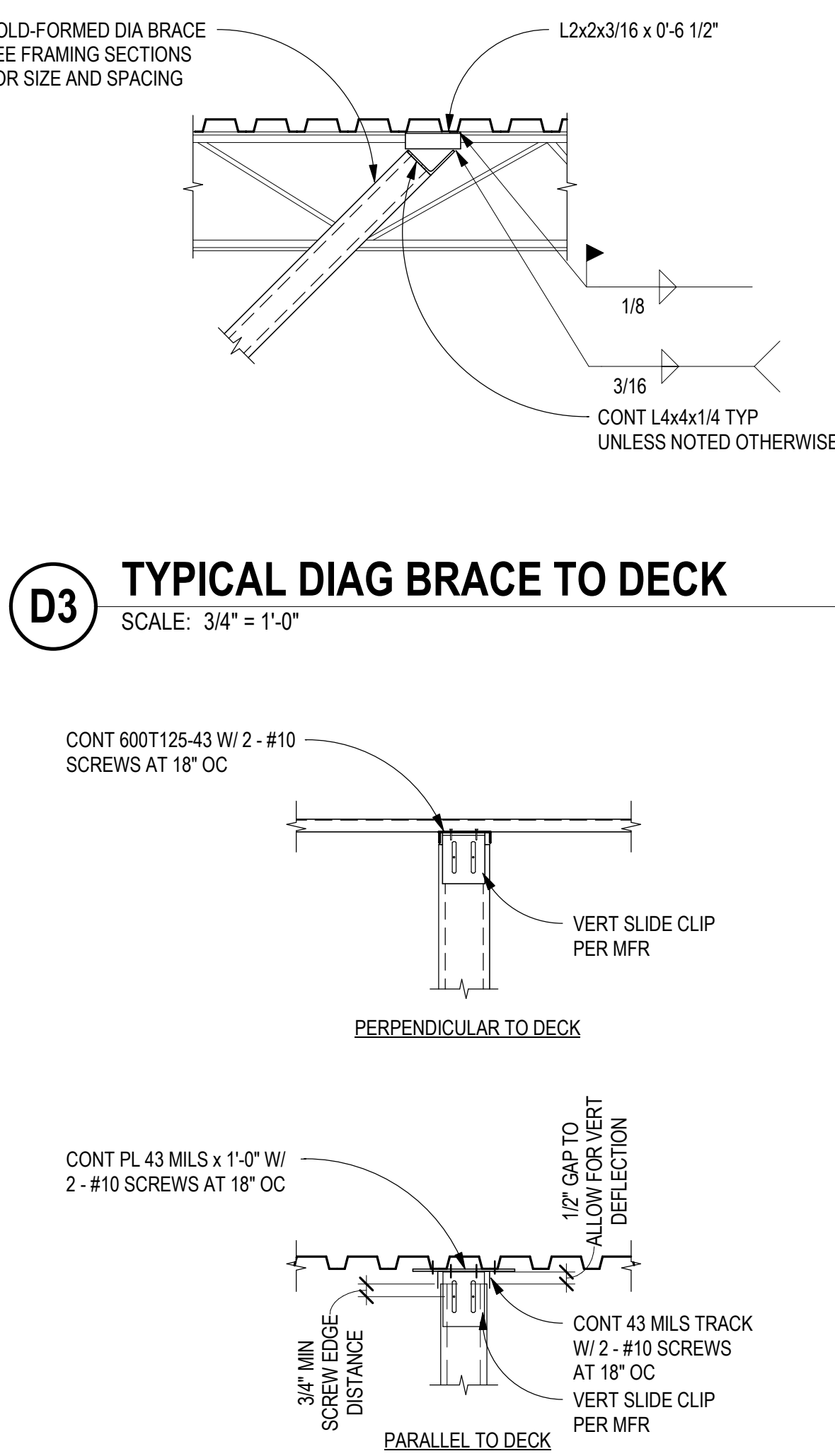
D5 TYPICAL SLIP TRACK ASSEMBLY

SCALE: NTS



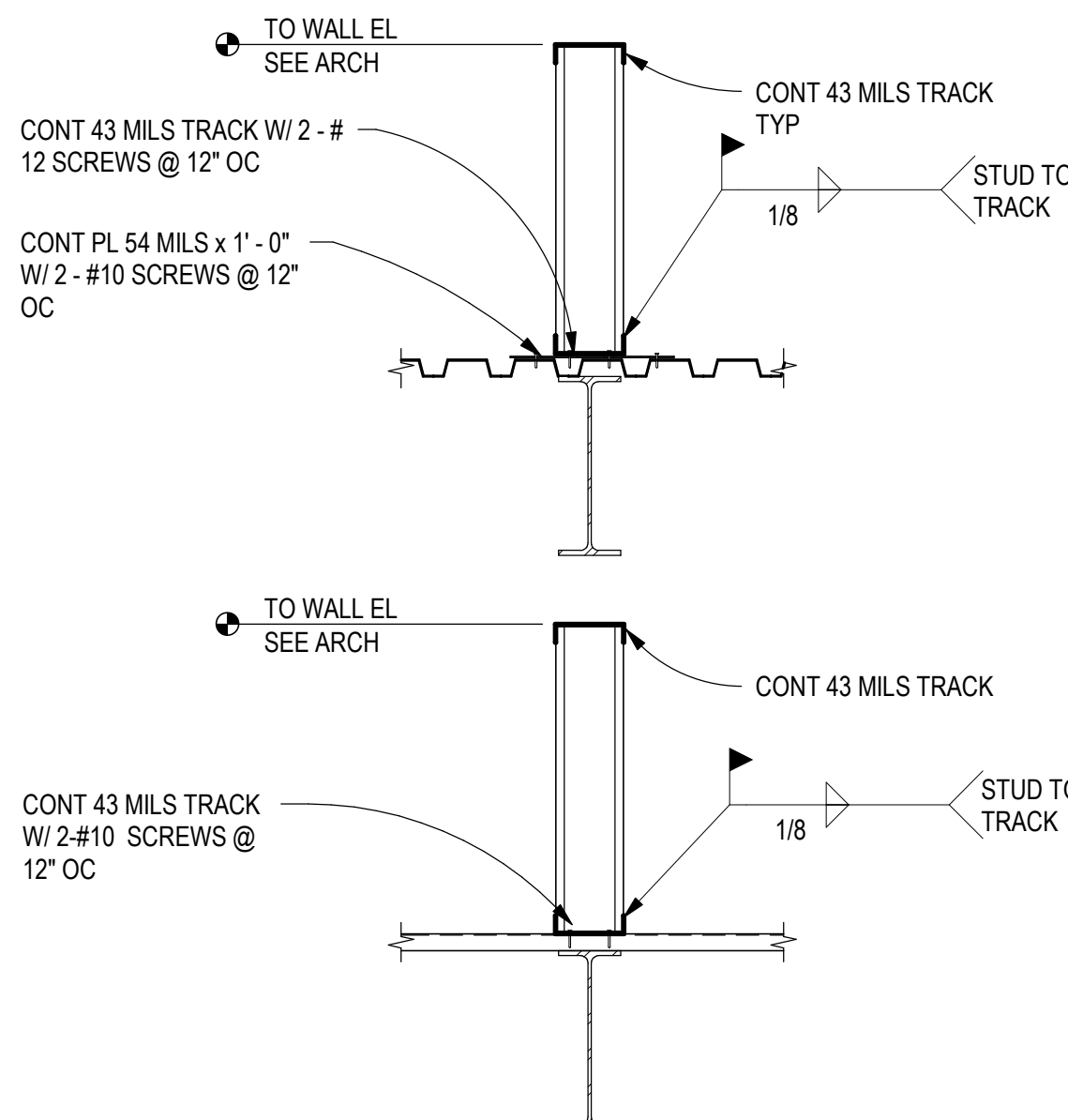
D3 TYPICAL DIAG BRACE TO DECK

SCALE: 3/4" = 1'-0"



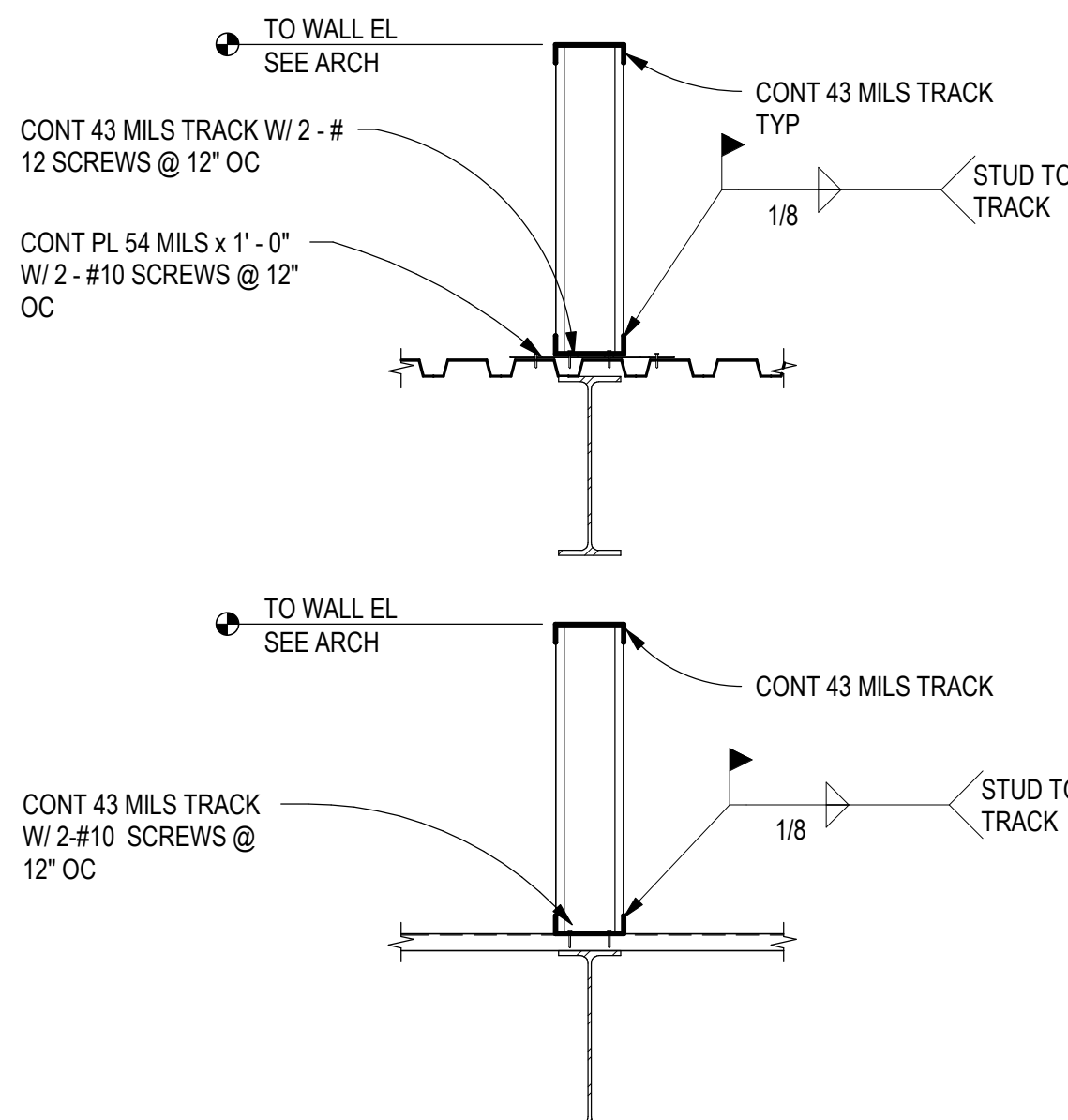
D2 TYPICAL DIAG STUD LAP DETAIL

SCALE: 3/4" = 1'-0"



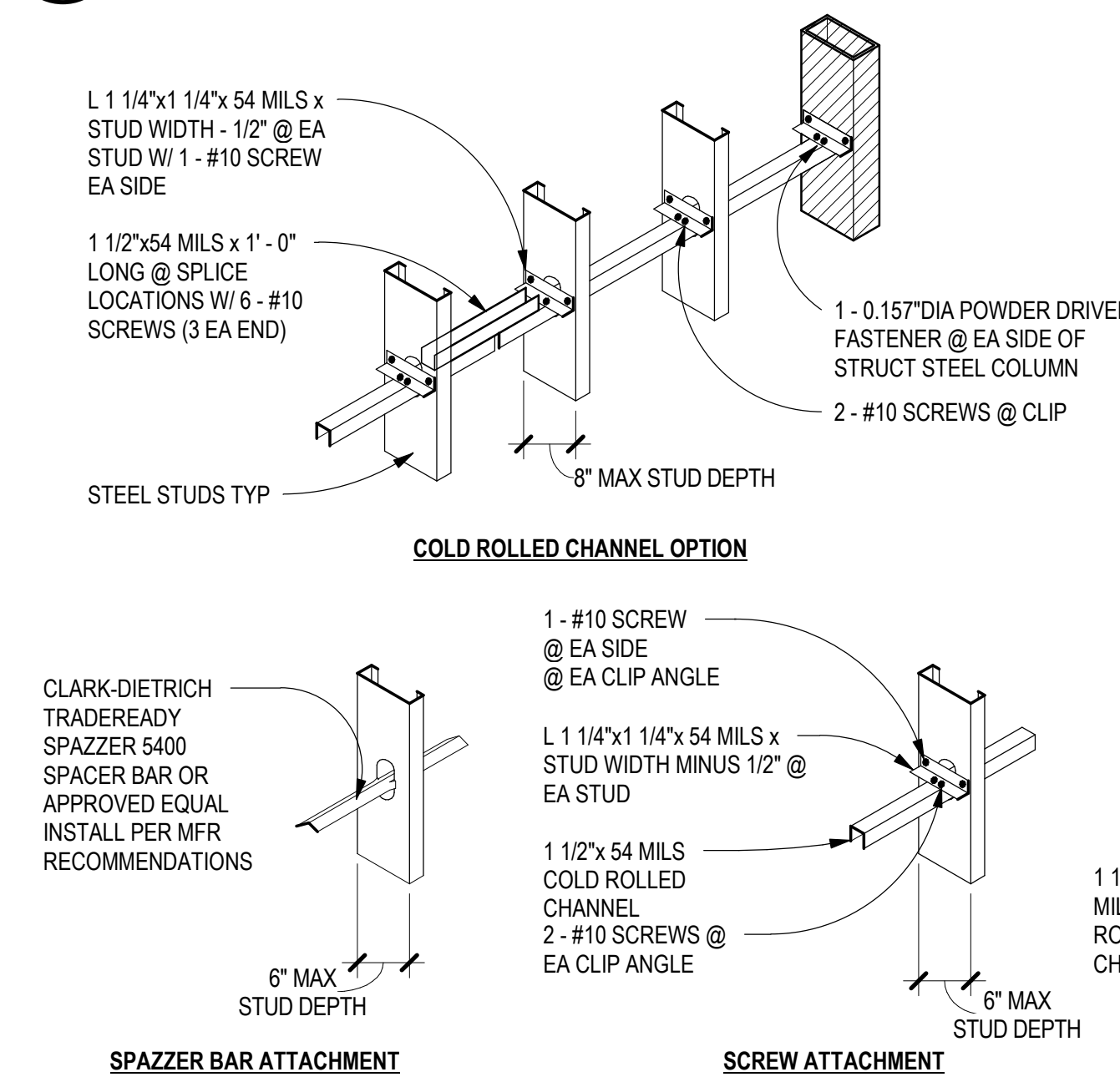
C2 TYPICAL PARAPET TO DECK

SCALE: 3/4" = 1'-0"



C3 TYPICAL SLIP TRACK ASSEMBLY

SCALE: NTS



CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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TYPICAL COLD-FORMED DETAILS

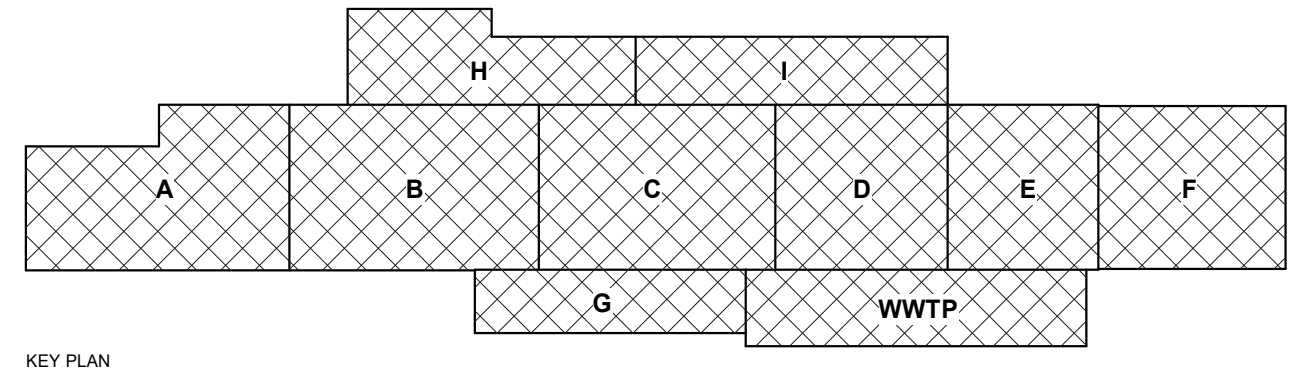
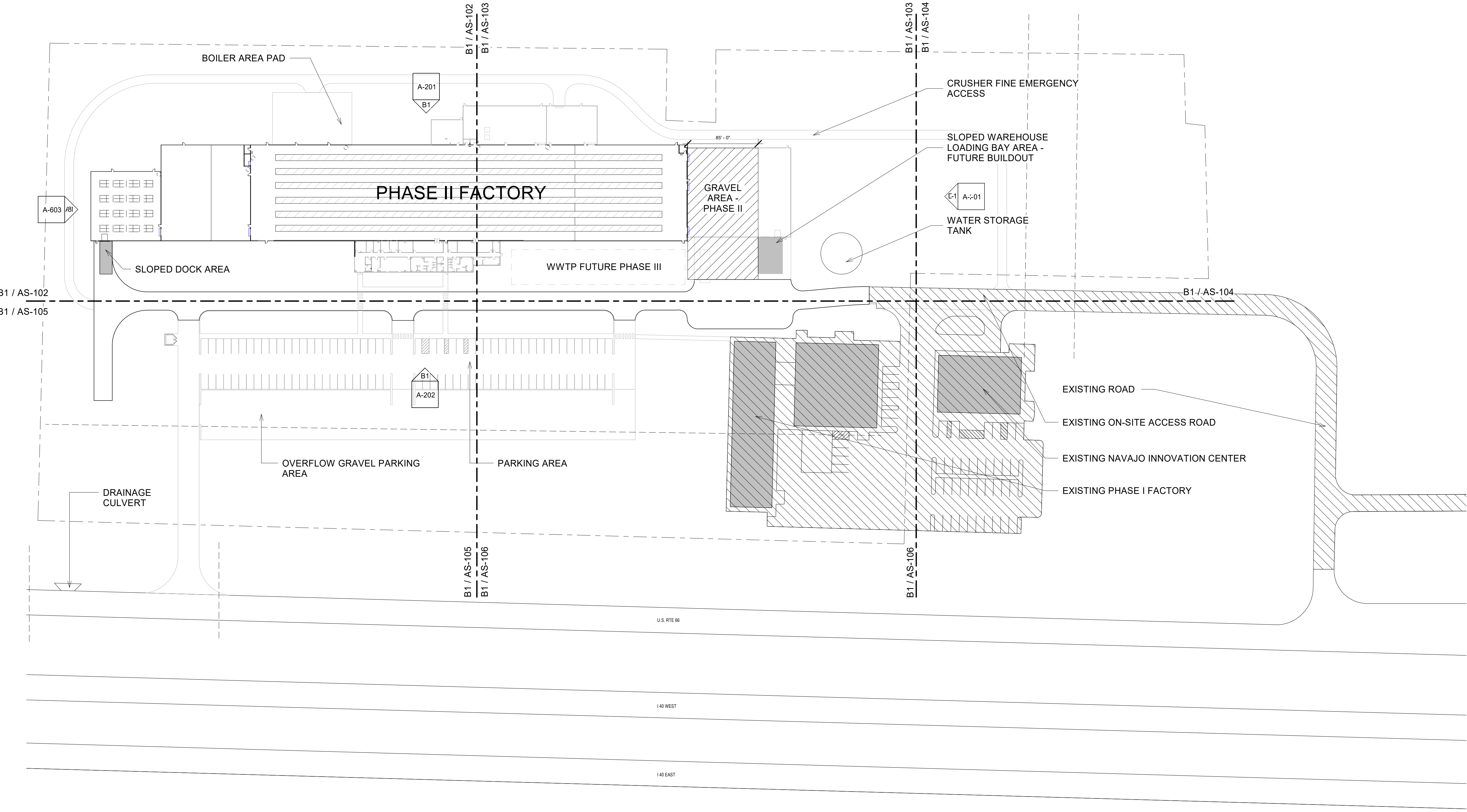
SHEET NUMBER

S-731

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

A1 SITE PLAN - PHASE II
1/8" = 1'-0"



GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- ALL DIMENSIONS ARE FACE TO STUD OR TO FACE OF MASONRY UNITS.
- ALL ANGLES ARE RIGHT ANGLES, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONFIRM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR COMMENCING WORK.
- CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
- PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIALS AS REQUIRED FOR FIRE STOPPING.
- CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION, UNLESS OTHERWISE NOTED.
- REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES, AND EQUIPMENT, AS OCCURS FOR INSTALLATION.

REFERENCE KEYNOTES

LINE LEGEND

- LOT BOUNDARY
- TARGET VIEW REFERENCE LINE
- REFERENCE LINE

PHASING

- PHASE II CONSTRUCTION - BLACK LINES
- PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC



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Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

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ARCHITECT

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PROJECT NUMBER: 2020.017
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SHEET TITLE

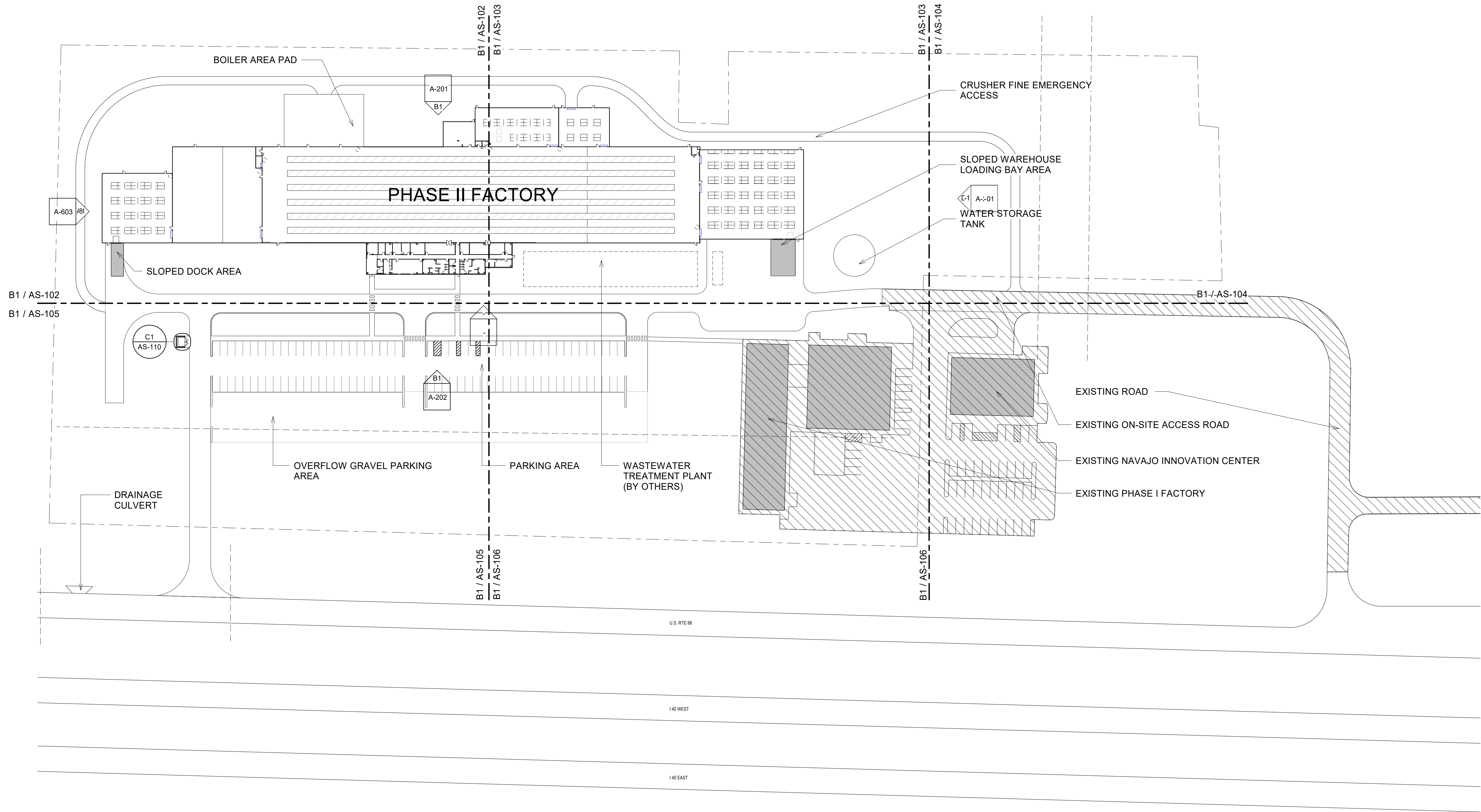
SITE PLAN - PHASE II

SHEET NUMBER

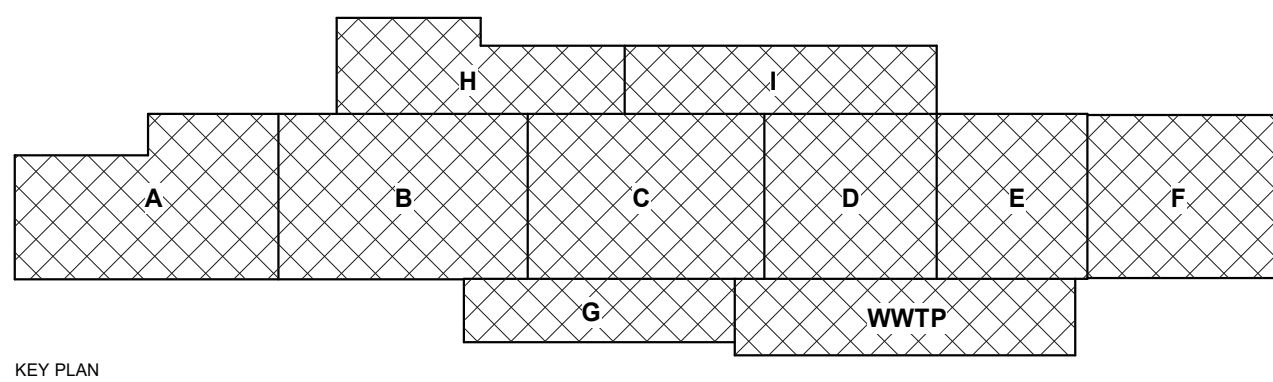
AS-101A

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory ARCH_1.rvt



B1 SITE PLAN - PHASE III FUTURE BUILDOUT
1/64" = 1'-0"



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

LINE LEGEND

- LOT BOUNDARY
- TARGET VIEW REFERENCE LINE
- REFERENCE LINE

PHASING

- Legend 1
1/4" = 1'-0"
- PHASE II CONSTRUCTION - BLACK LINES
 - PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES
- Phasing Legend
1/4" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022

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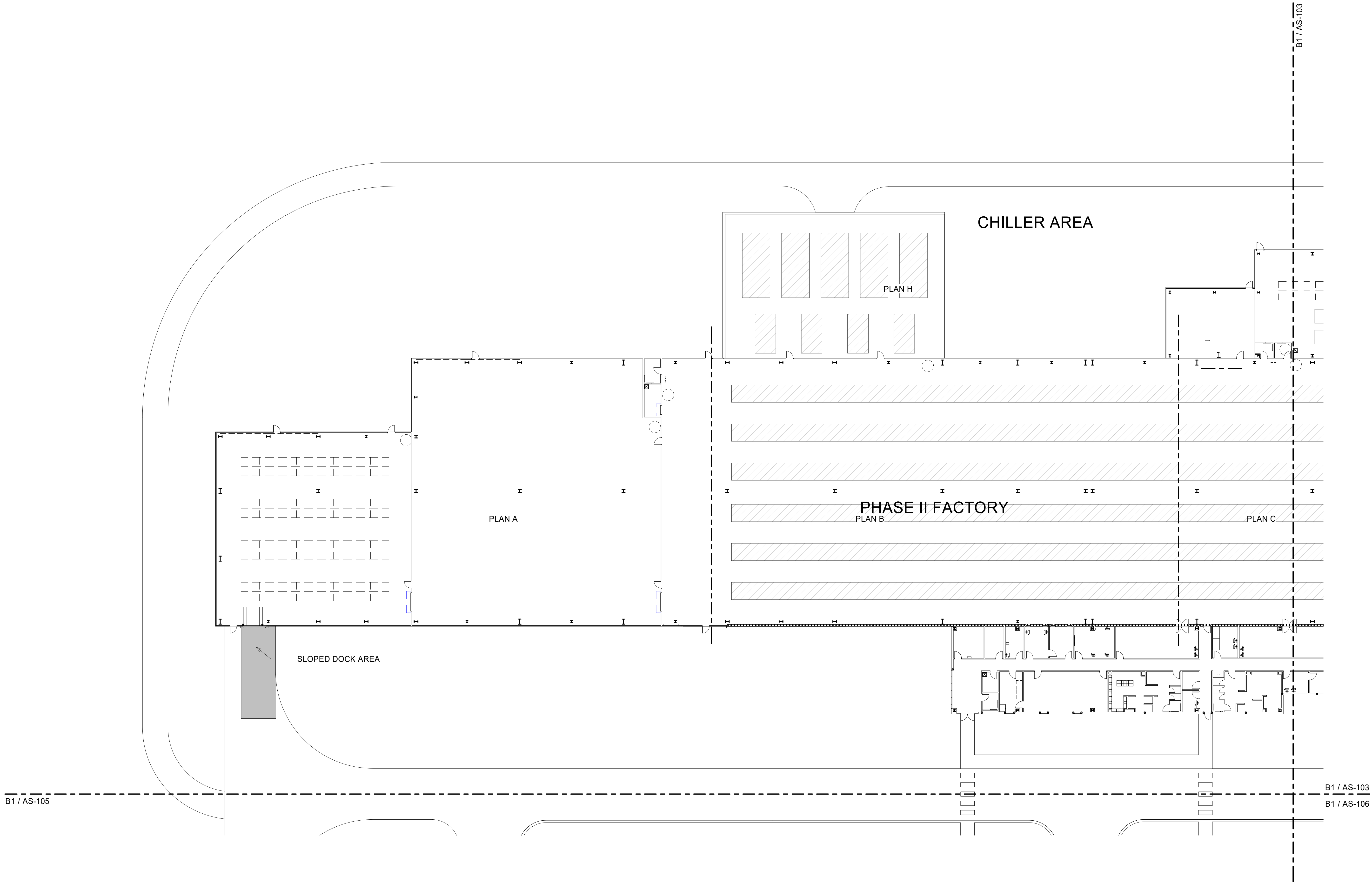
SITE PLAN - PHASE III

SHEET NUMBER

AS-101B

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory/ARCH_1.rvt

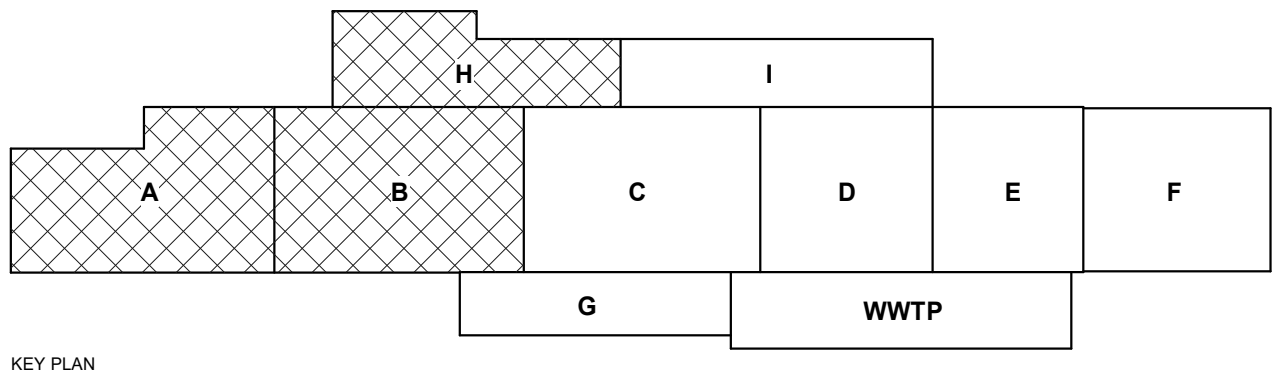


GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

B1 ENLARGED SITE PLAN - AREA 1
1" = 20'-0"



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

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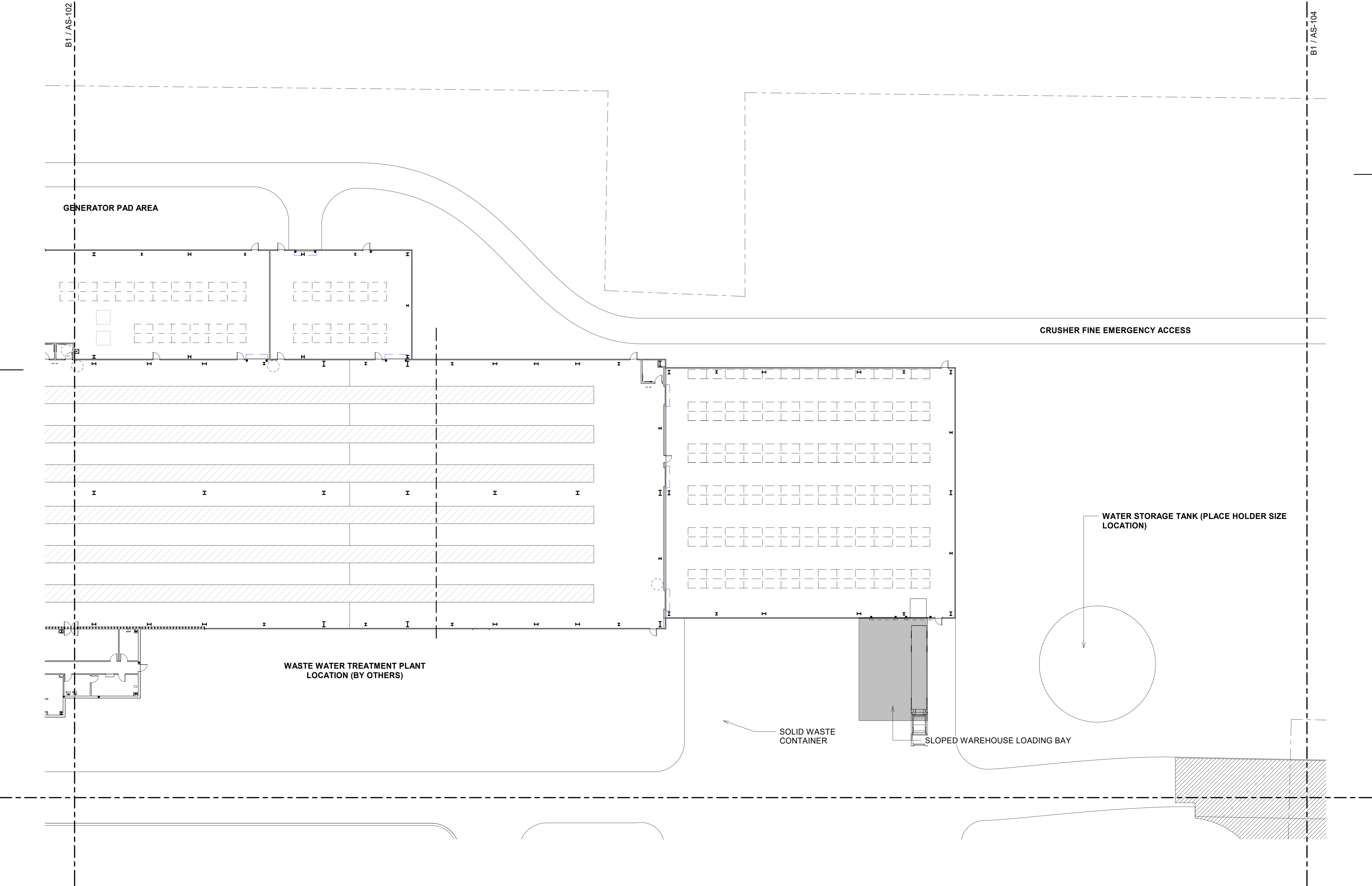
ENLARGED
SITE PLAN

SHEET NUMBER

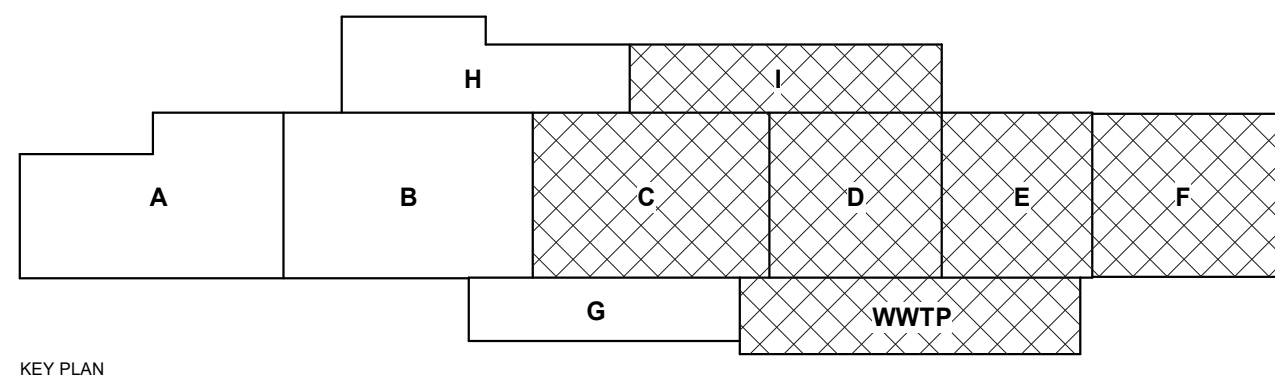
AS-102

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory/ARCH_1.rvt



B1 ENLARGED SITE PLAN - AREA 2
1" = 20'-0"



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
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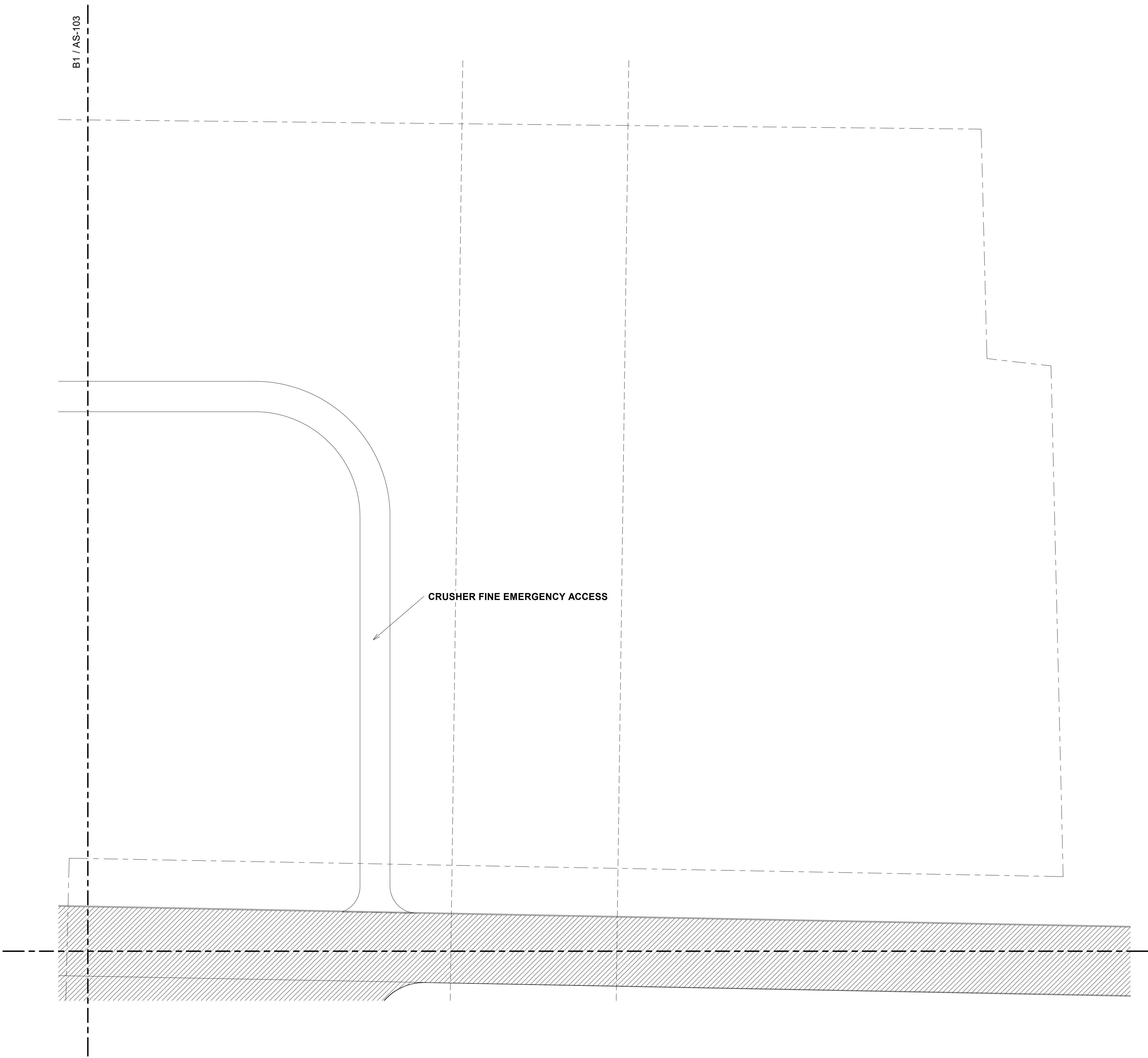
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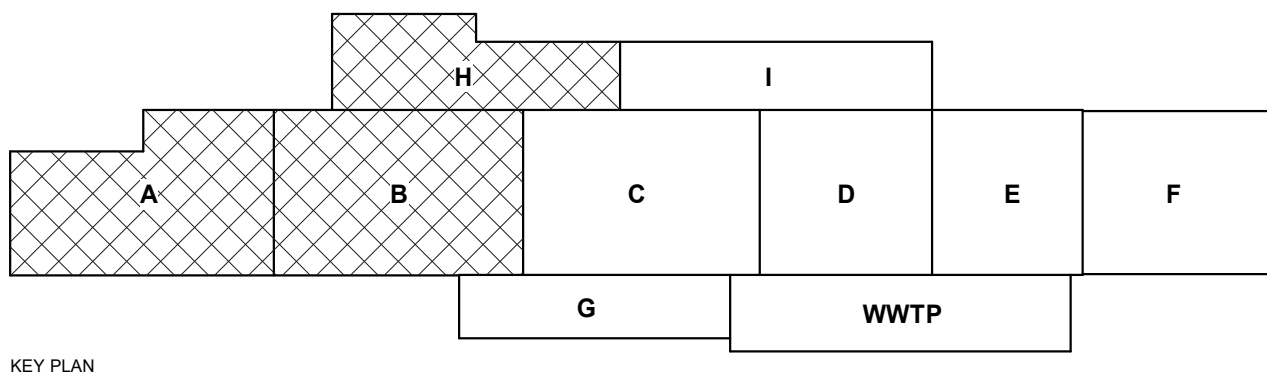
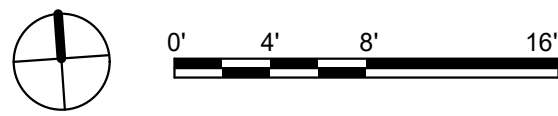
AS-103

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory/ARCH_1.rvt



B1 SITE ENLARGED - AREA 3
1" = 20'-0"



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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SHEET TITLE

ENLARGED
SITE PLAN

SHEET NUMBER

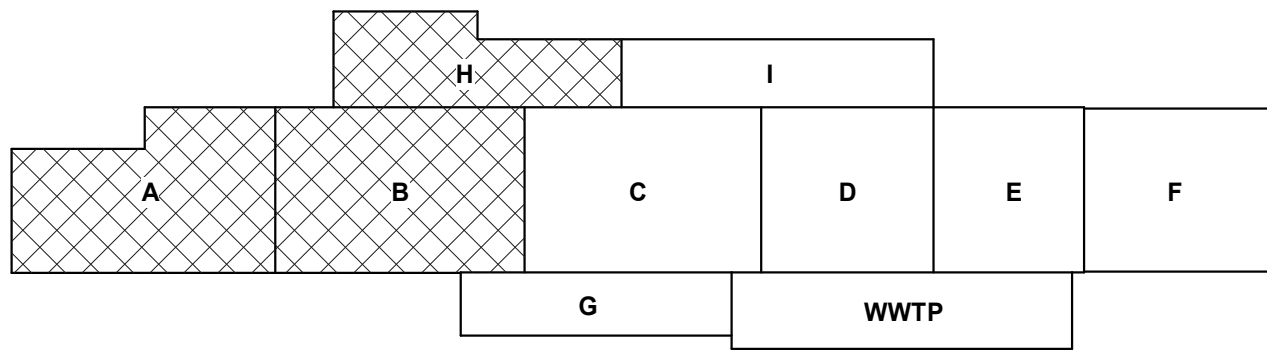
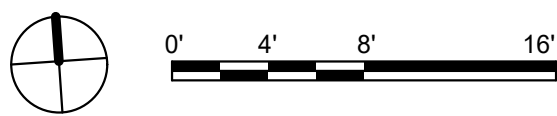
AS-104

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory/ARCH_1.rvt

B1 ENLARGED SITE PLAN - AREA 5

1" = 20'-0"



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

B1 / AS-103

B1 / AS-106

CHURCH ROCK PHASE II FACTORY

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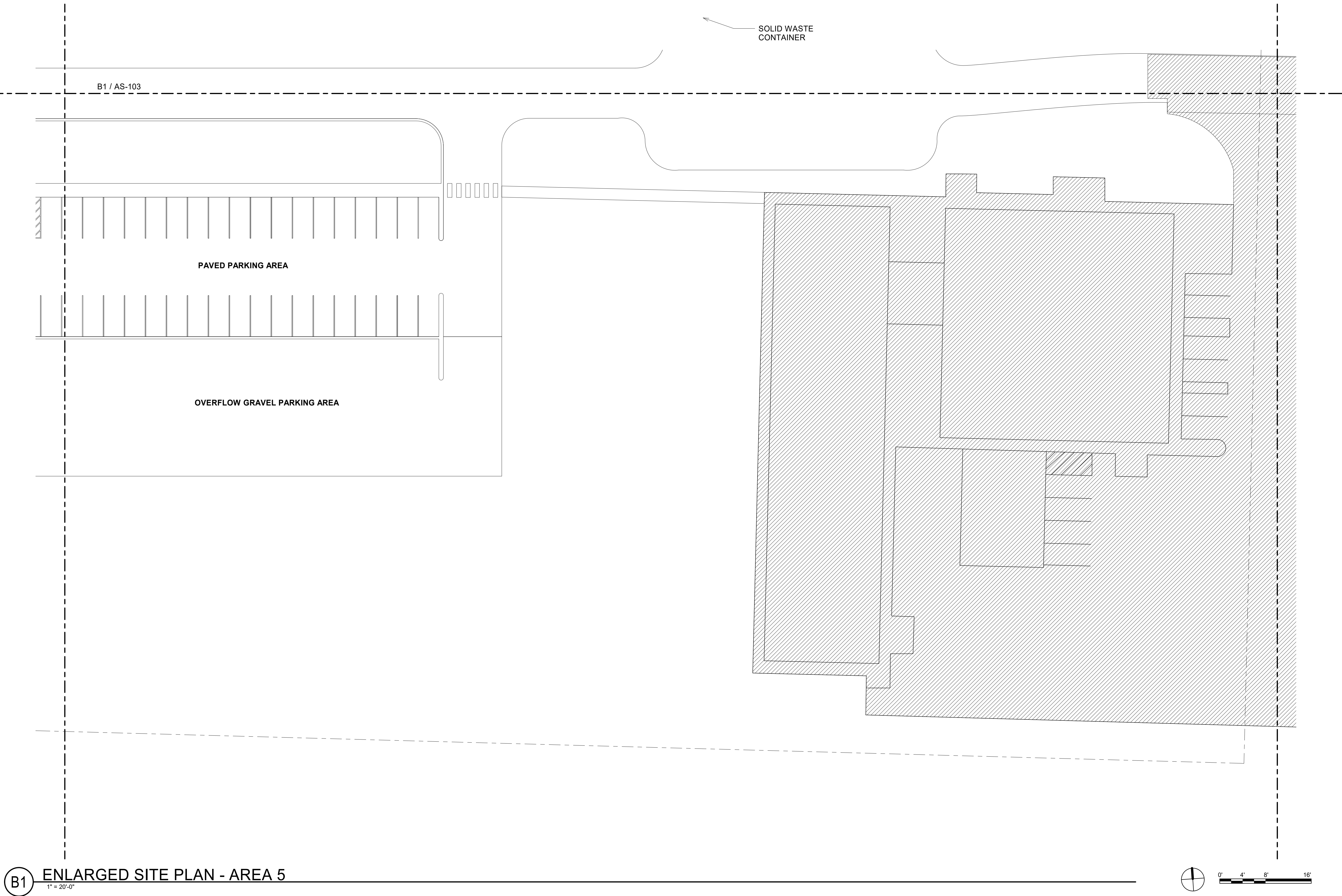
ENLARGED SITE PLAN

SHEET NUMBER

AS-105

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory ARCH_1.rvt



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

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ENLARGED SITE PLAN

SHEET NUMBER

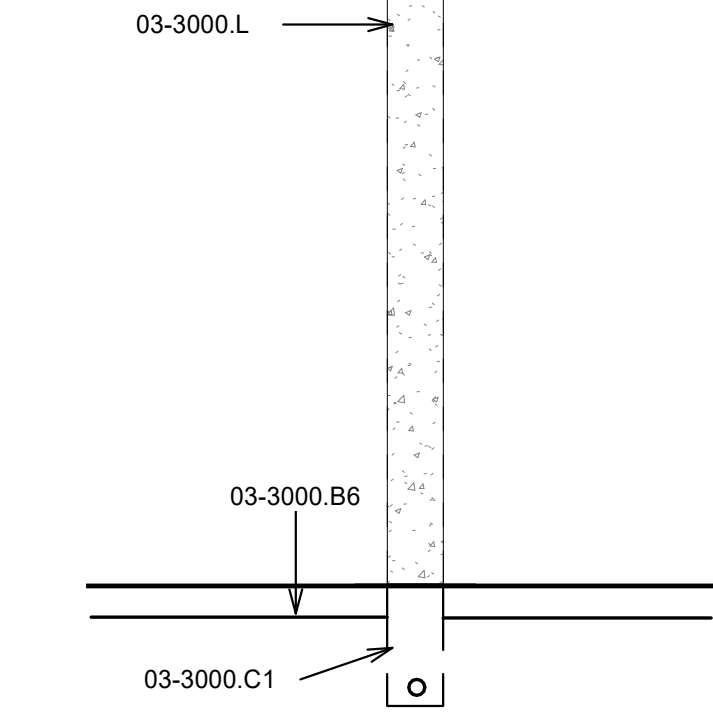
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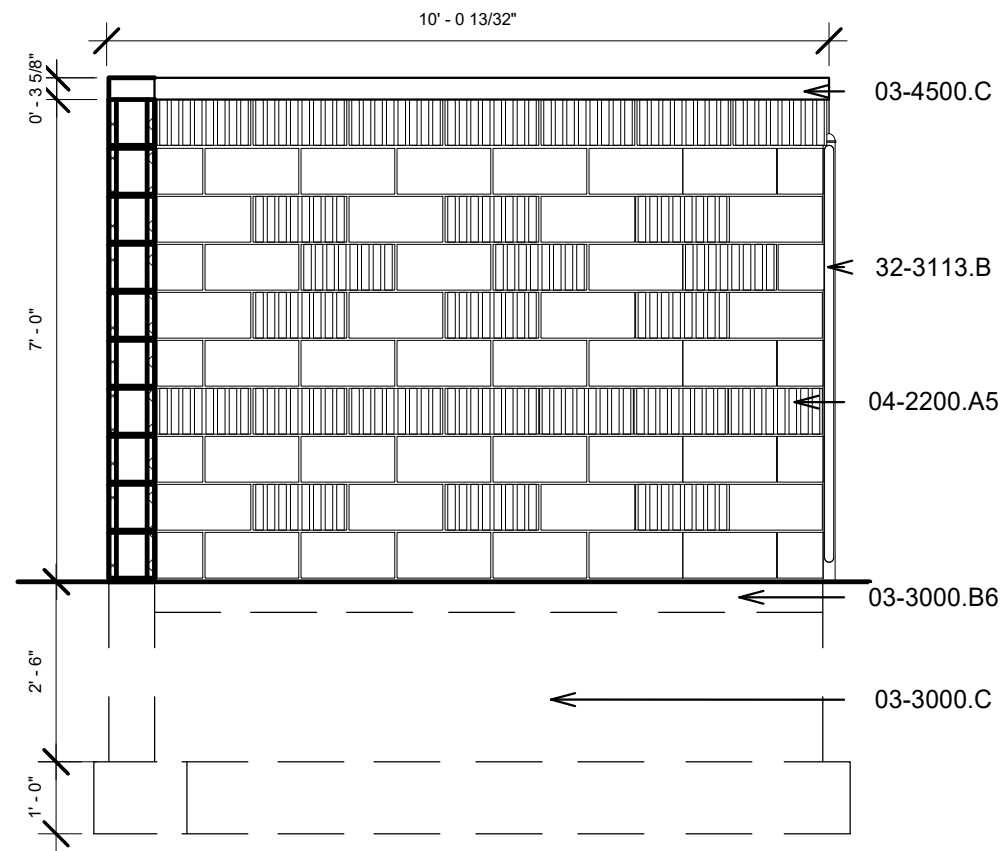
1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

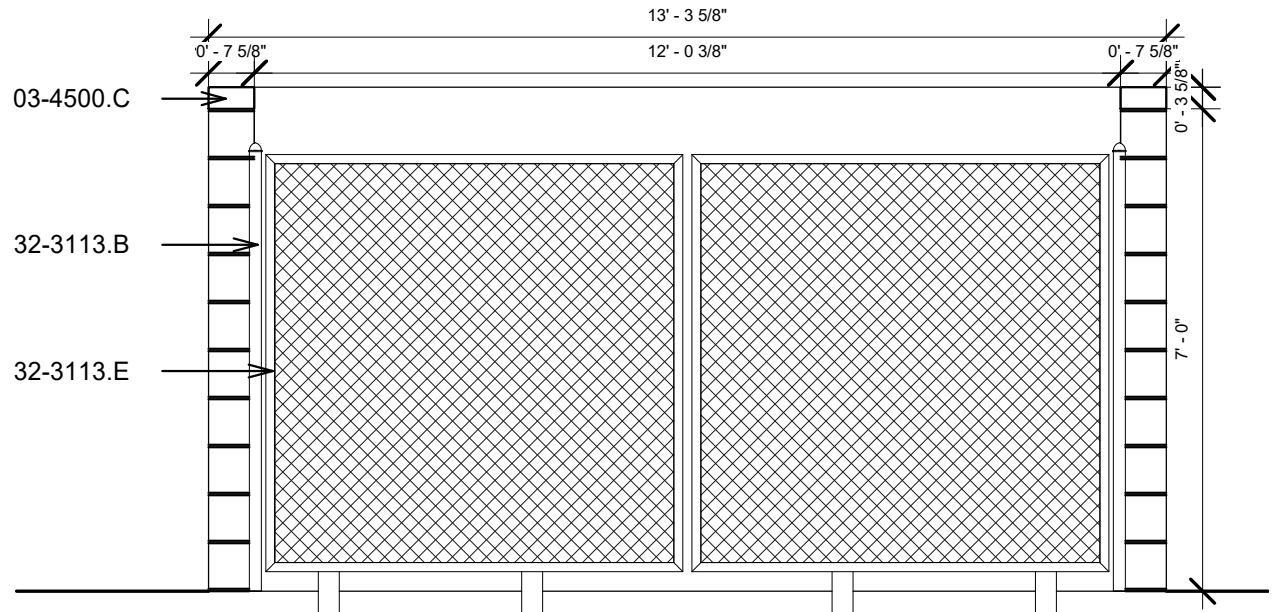
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03-3000.C	CONCRETE FOOTING
03-3000.C1	
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03-4500.C	PRECAST WALL CAP
04-2200.A5	
32-3113.B	POST
32-3113.E	



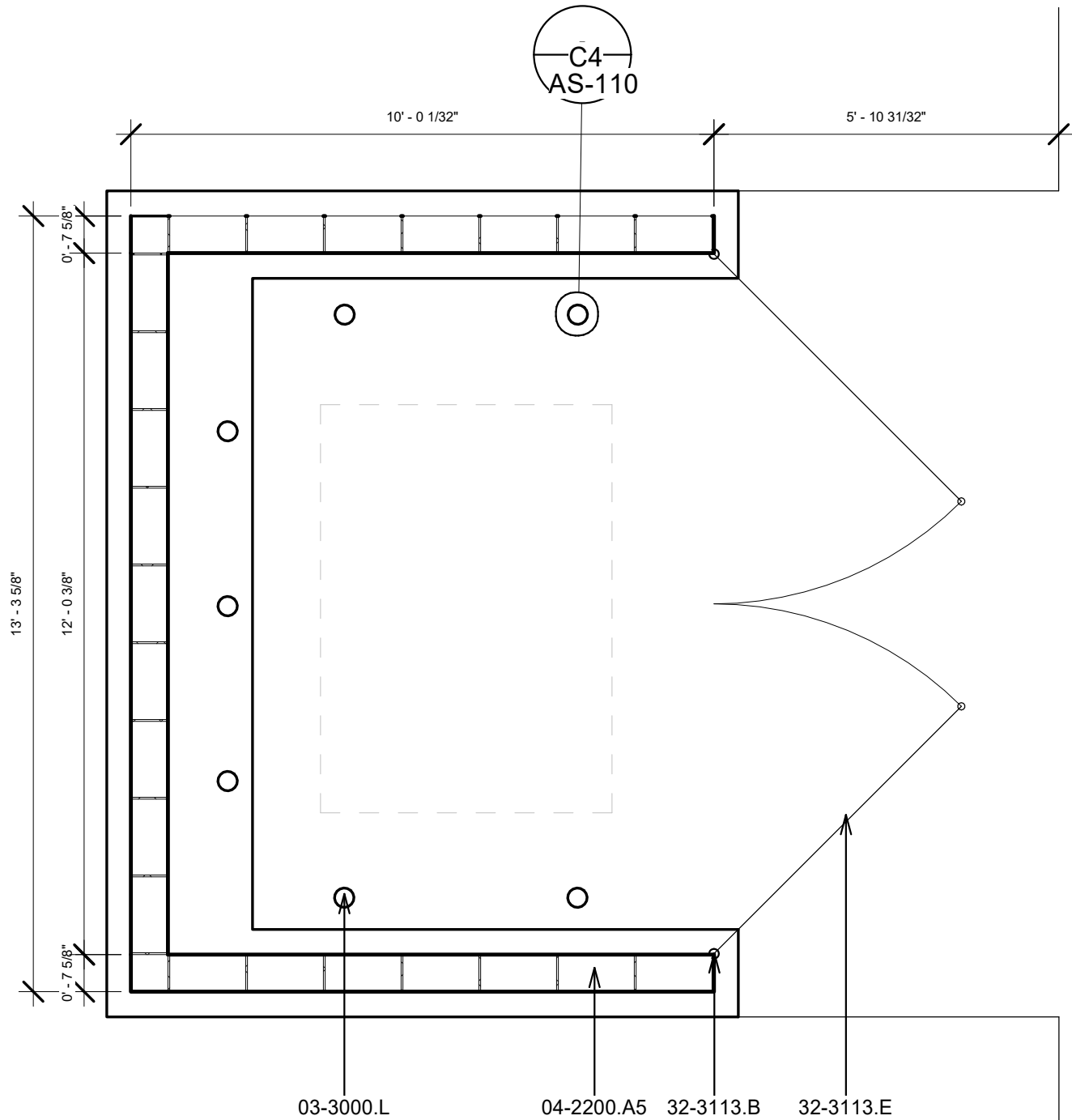
C4



A1



A3



C1

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

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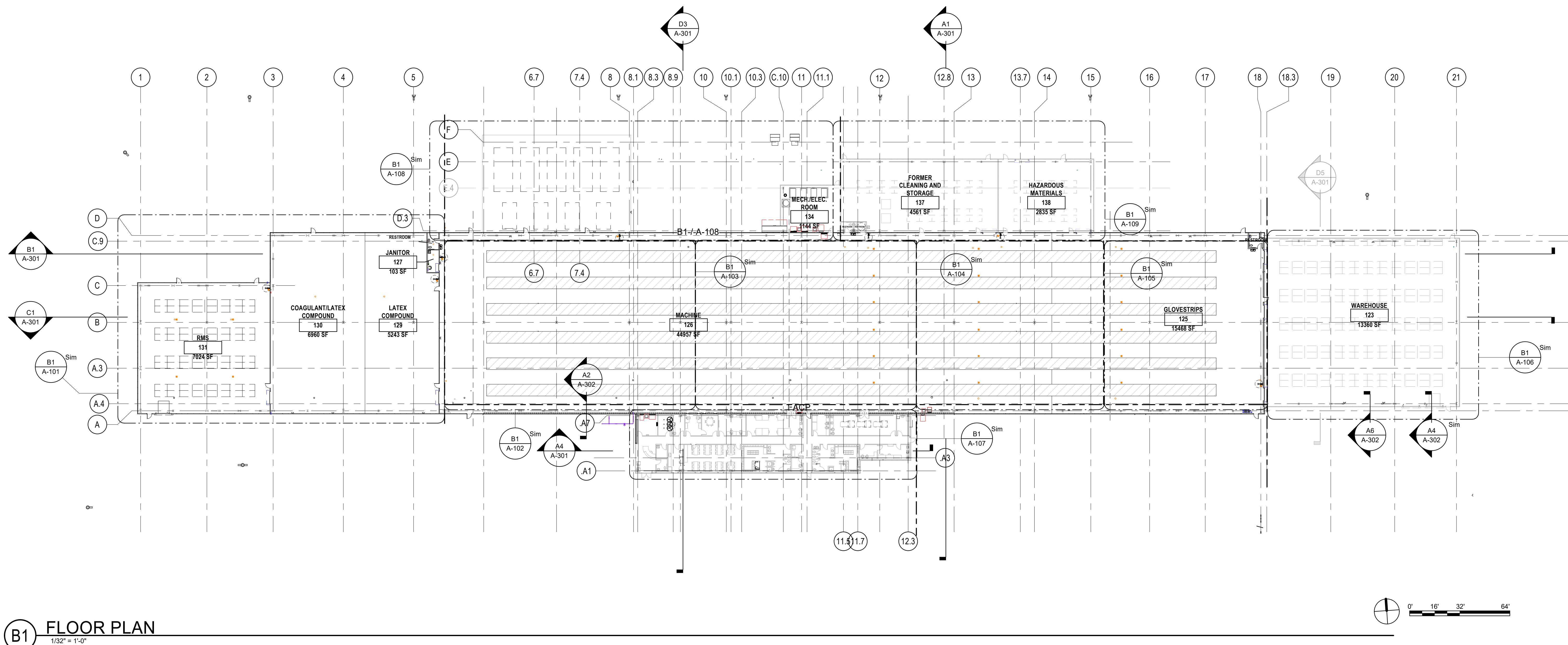
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Sequence of

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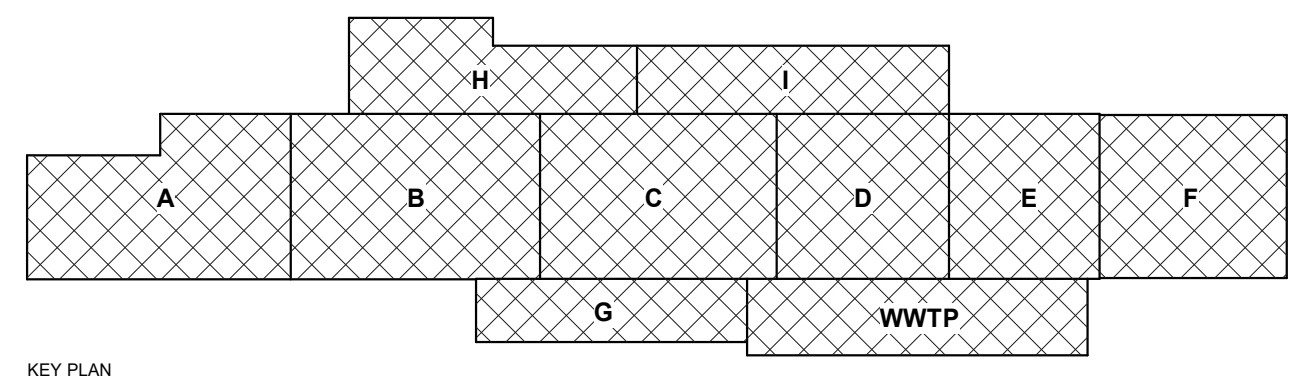
B1 FLOOR PLAN
1/32" = 1'-0"

PHASING

— PHASE II CONSTRUCTION - BLACK LINES

--- PHASE III CONSTRUCTION - GREYED LINES

○ Phasing Legend
1/4" = 1'-0"



GENERAL NOTES

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3. ALL ANGLES ARE RIGHT ANGLES, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONFIRM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR COMMENCING WORK.
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8. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES, AND EQUIPMENT, AS OCCURS FOR INSTALLATION.
9. MANUFACTURING EQUIPMENT TO BE FUTURE TENANT IMPROVEMENTS; MEASUREMENTS/SIZING FOR REFERENCE ONLY. ALL EQUIPMENT REQUIREMENTS TO BE VERIFIED.

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022
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SHEET TITLE

**FLOOR
PLAN**

SHEET NUMBER

A-100

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory ARCH_1.rvt

B1 FLOOR PLAN - AREA A COMPOUND

1/8" = 1'-0"

GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
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- MANUFACTURING EQUIPMENT TO BE FUTURE TENANT IMPROVEMENTS; MEASUREMENTS/SIZING FOR REFERENCE ONLY. ALL EQUIPMENT REQUIREMENTS TO BE VERIFIED.

SHEET KEYNOTES

- 07 EQUIPMENT BY OTHERS

REFERENCE KEYNOTES

- 08-3323.A COILING DOOR
11-1313.A LOADING DOCK BUMPERS
11-1313.B LOADING DOCK LEVELER
22-0000.N MOP SINK
22-0000.P EYE WASH STATION

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
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FLOOR PLAN - AREA A COMP

SHEET NUMBER

A-101

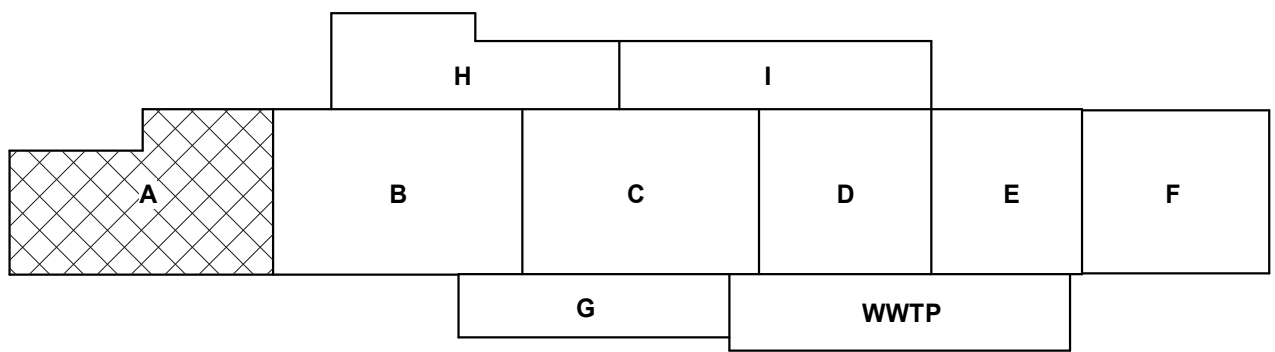
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PHASING
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- - - FUTURE BUILDOUT - GREYED LINES

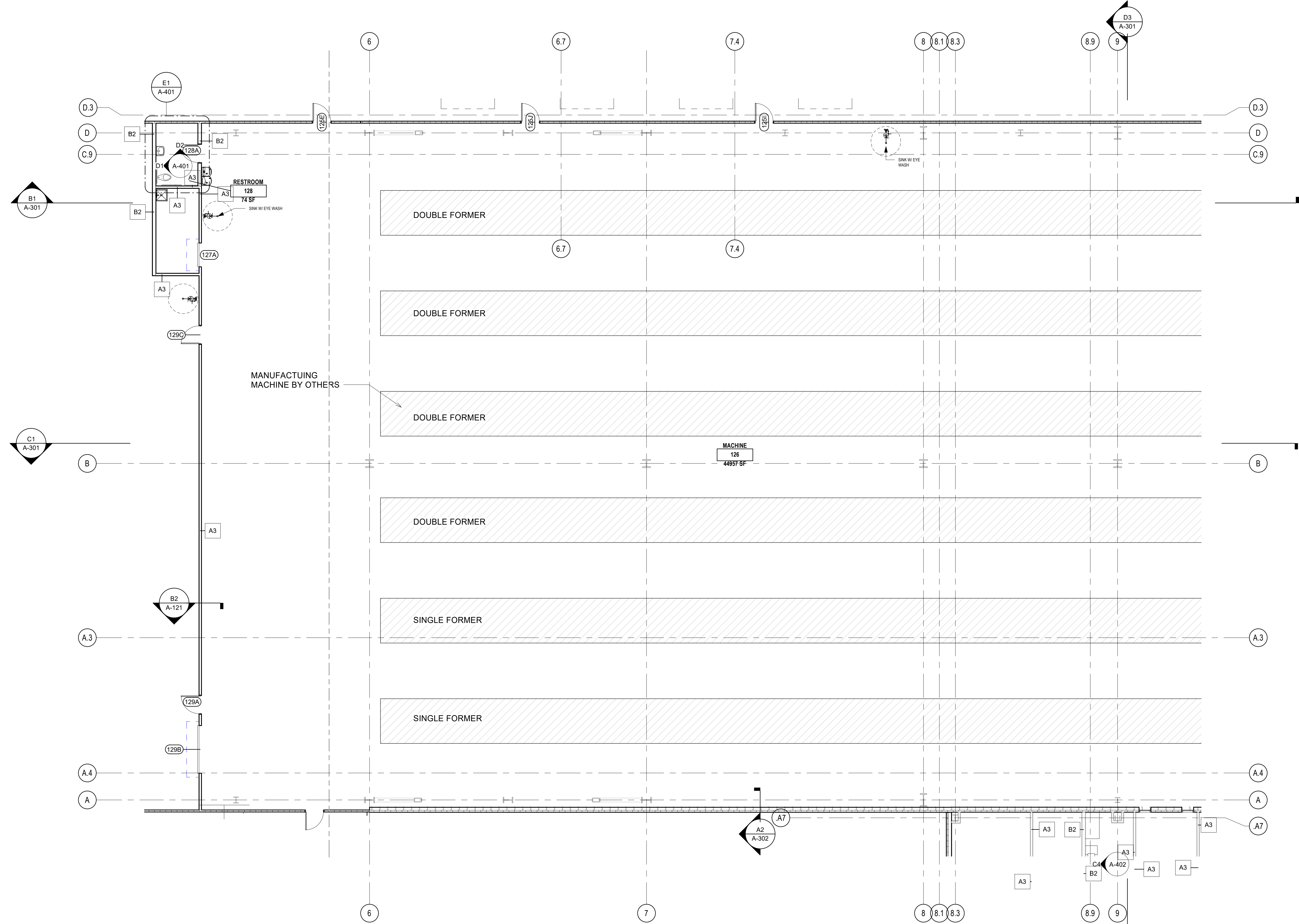
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- - - FUTURE BUILDOUT - GREYED LINES

Phasing Legend
1/4" = 1'-0"

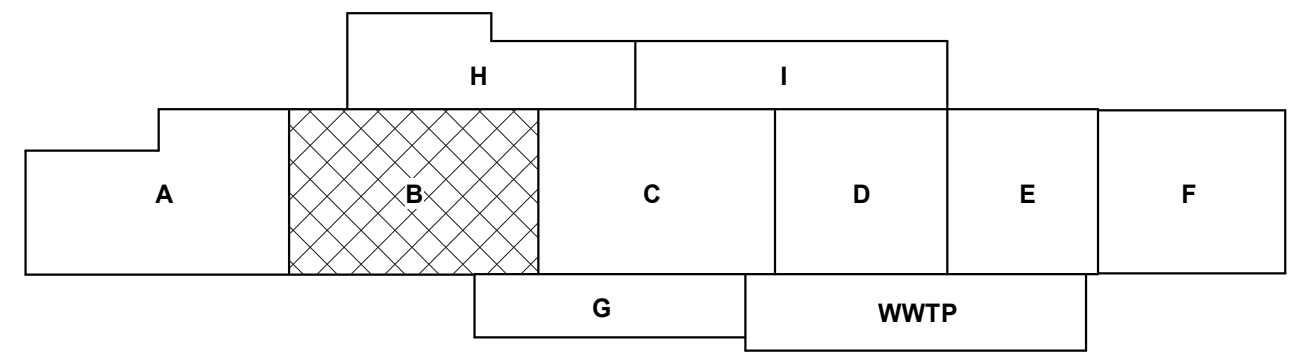
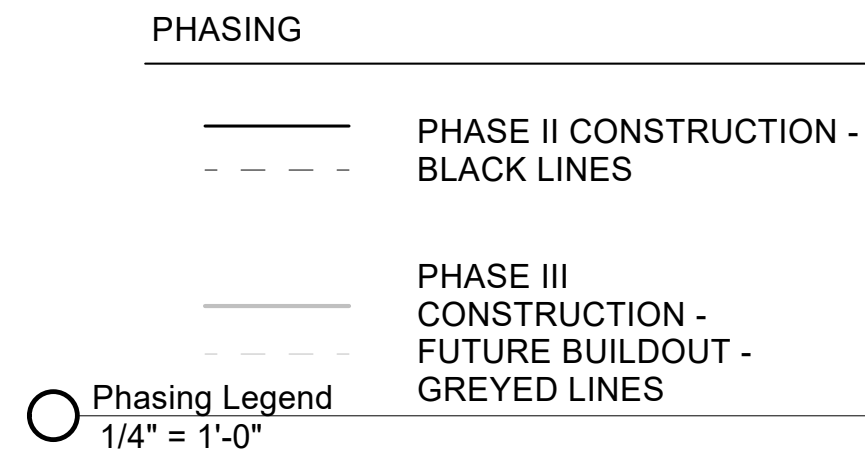


KEY PLAN

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



B1 FLOOR PLAN - AREA B FACTORY
1/8" = 1'-0"



GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
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- ALL ANGLES ARE RIGHT ANGLES, UNLESS OTHERWISE NOTED.
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REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

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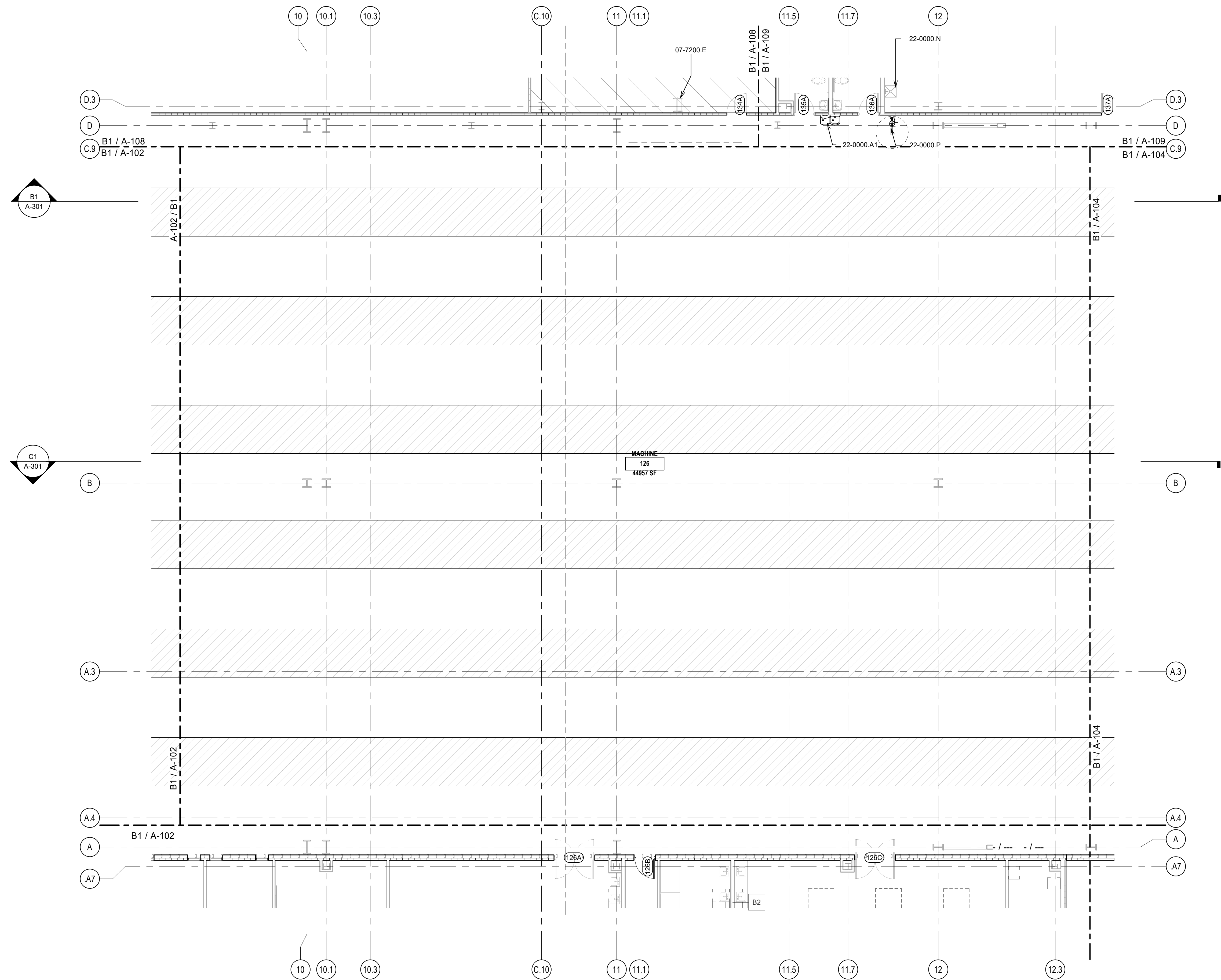
SHEET TITLE
FLOOR PLAN - AREA B FACTORY

SHEET NUMBER

A-102

Sequence of

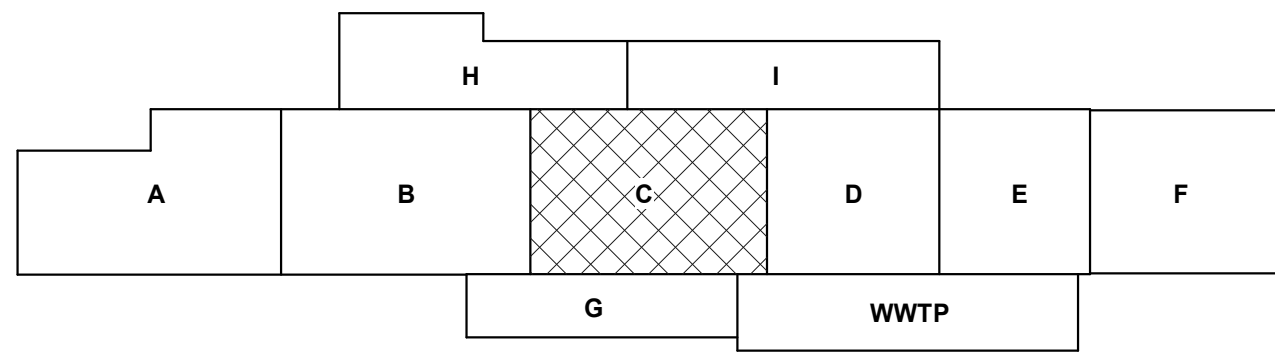
BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



B1 FLOOR PLAN - AREA C FACTORY
1/8" = 1'-0"



- PHASING**
- PHASE II CONSTRUCTION - BLACK LINES
 - - - FUTURE BUILDOUT - GREYED LINES
 - PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES
- Phasing Legend
1/4" = 1'-0"



GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- MANUFACTURING EQUIPMENT TO BE FUTURE TENANT IMPROVEMENTS; MEASUREMENTS/SIZING FOR REFERENCE ONLY. ALL EQUIPMENT REQUIREMENTS TO BE VERIFIED.

REFERENCE KEYNOTES

- | | |
|------------|------------------------|
| 07-7200.E | ROOF SHIP LADDER |
| 22-0000.A1 | DRINKING FOUNTAIN/ EWC |
| 22-0000.N | MOP SINK |
| 22-0000.P | EYE WASH STATION |

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022

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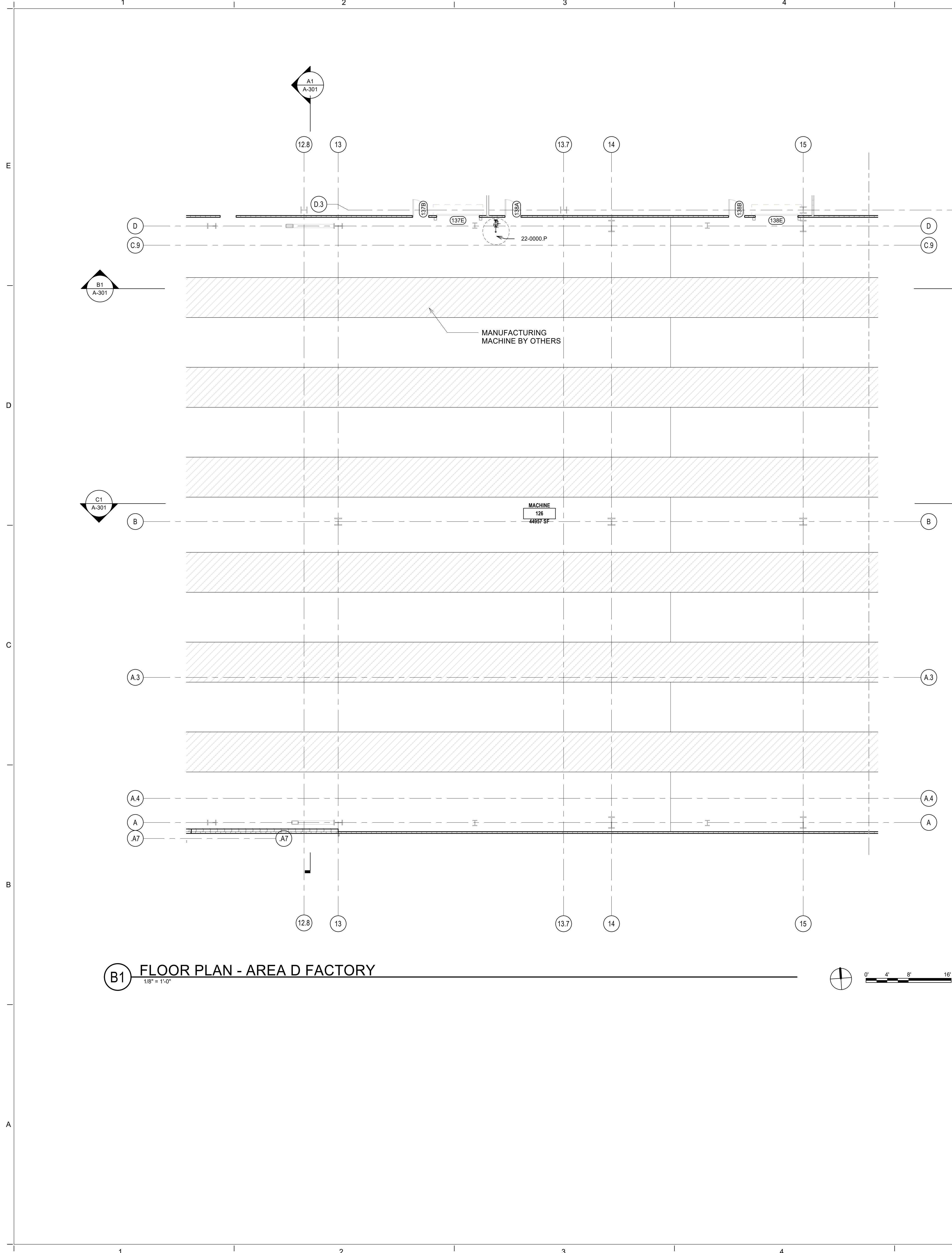
SHEET TITLE
FLOOR PLAN - AREA C FACTORY

SHEET NUMBER

A-103

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

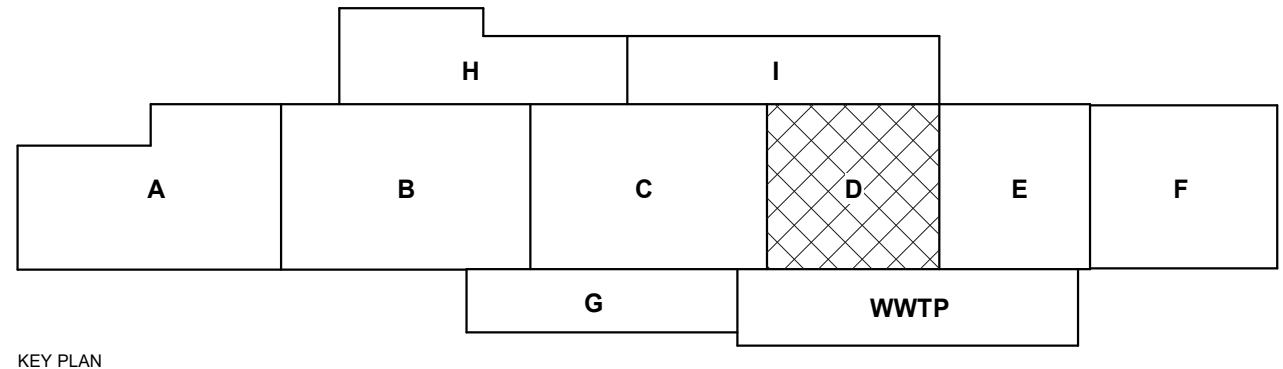


B1 FLOOR PLAN - AREA D FACTORY
1/8" = 1'-0"

PHASING

— PHASE II CONSTRUCTION - BLACK LINES
- - - PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES

○ Phasing Legend
1/4" = 1'-0"



GENERAL NOTES


1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. MANUFACTURING EQUIPMENT TO BE FUTURE TENANT IMPROVEMENTS; MEASUREMENTS/SIZING FOR REFERENCE ONLY. ALL EQUIPMENT REQUIREMENTS TO BE VERIFIED.

REFERENCE KEYNOTES

22-0000.P EYE WASH STATION

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022
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	MARCH 25, 2022	

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SHEET TITLE
FLOOR PLAN - AREA D FACTORY

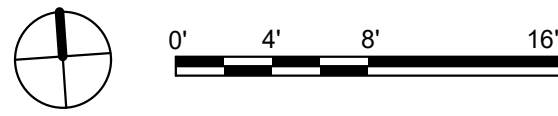
SHEET NUMBER

A-104

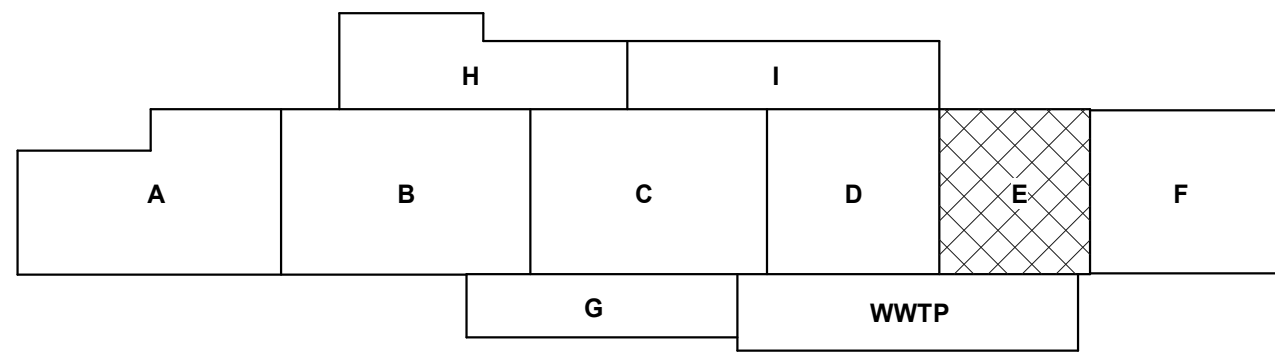
Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

B1 FLOOR PLAN - AREA E FACTORY
1/8" = 1'-0"



- PHASING**
- PHASE II CONSTRUCTION - BLACK LINES
- - - FUTURE BUILDOUT - GREYED LINES
- PHASE III CONSTRUCTION - BLACK LINES
- - - FUTURE BUILDOUT - GREYED LINES
- Phasing Legend
1/4" = 1'-0"



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. MANUFACTURING EQUIPMENT TO BE FUTURE TENANT IMPROVEMENTS; MEASUREMENTS/SIZING FOR REFERENCE ONLY. ALL EQUIPMENT REQUIREMENTS TO BE VERIFIED.

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC



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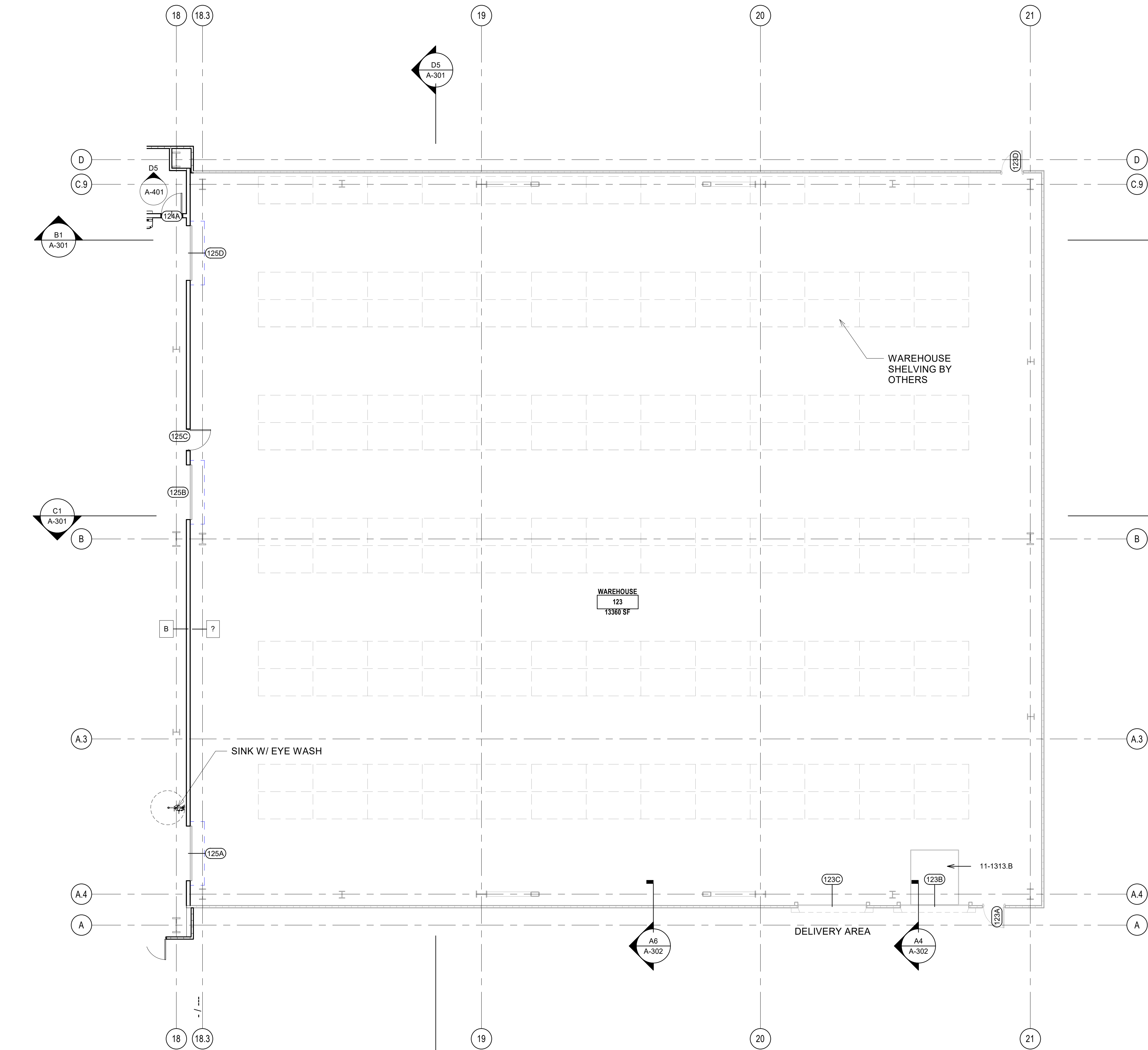
SHEET TITLE
FLOOR PLAN - AREA E FACTORY

SHEET NUMBER

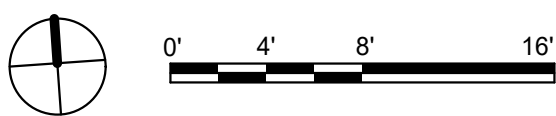
A-105

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



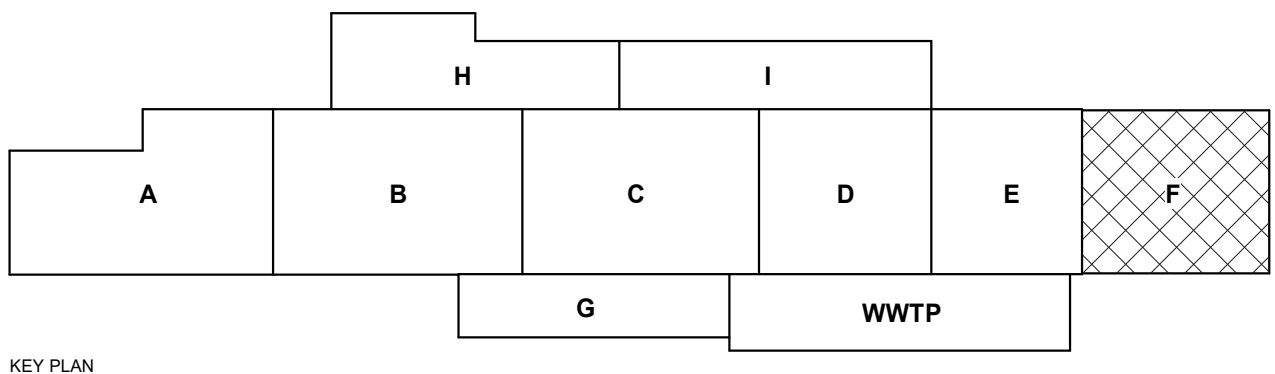
B1 FLOOR PLAN - AREA F WAREHOUSE
1/8" = 1'-0"



PHASING

— PHASE II CONSTRUCTION - BLACK LINES
- - - PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES

○ Phasing Legend
1/4" = 1'-0"



GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- MANUFACTURING EQUIPMENT TO BE FUTURE TENANT IMPROVEMENTS; MEASUREMENTS/SIZING FOR REFERENCE ONLY. ALL EQUIPMENT REQUIREMENTS TO BE VERIFIED.

REFERENCE KEYNOTES

11-1313.B LOADING DOCK LEVELER

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022
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FLOOR PLAN - AREA F WAREHOUSE

SHEET NUMBER

A-106

Sequence of

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GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. EQUIPMENT SHOWN FOR REFERENCE ONLY
3. FURNITURE SHOWN FOR REFERENCE ONLY

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

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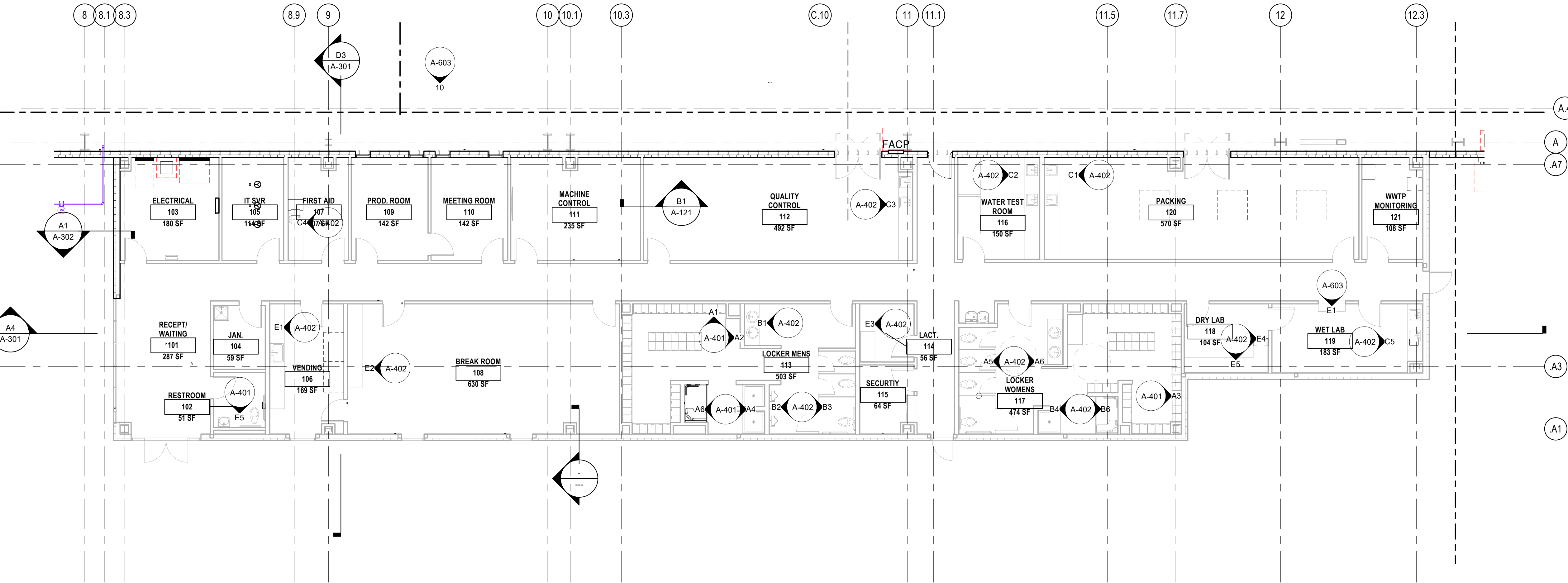
SHEET TITLE
FLOOR PLAN - AREA G ADMIN

SHEET NUMBER

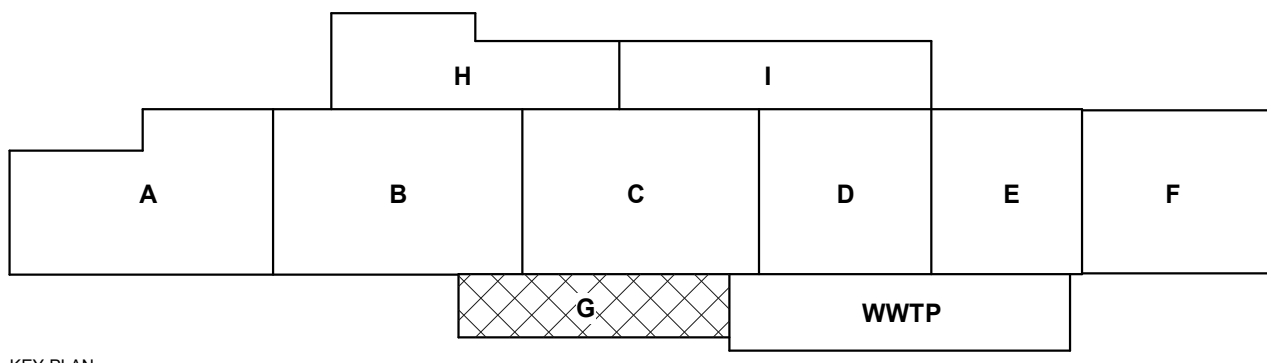
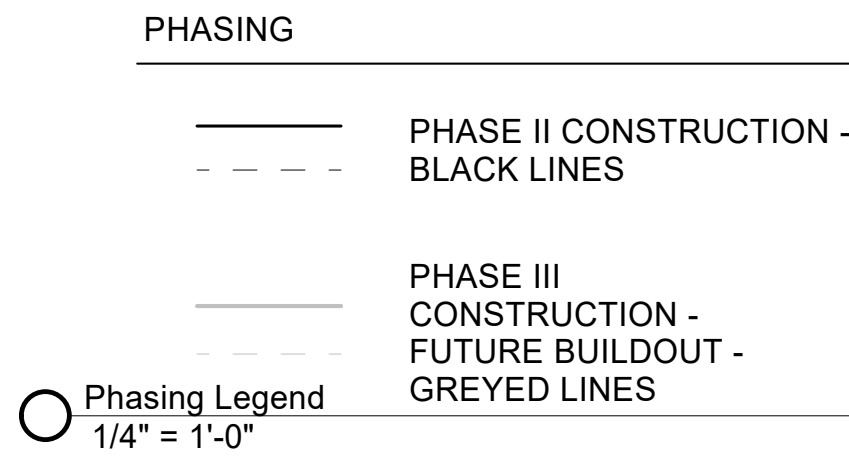
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Sequence of

3/29/2022 5:47:40 PM



B1 FLOOR PLAN - AREA G ADMINISTRATION
1/8" = 1'-0"

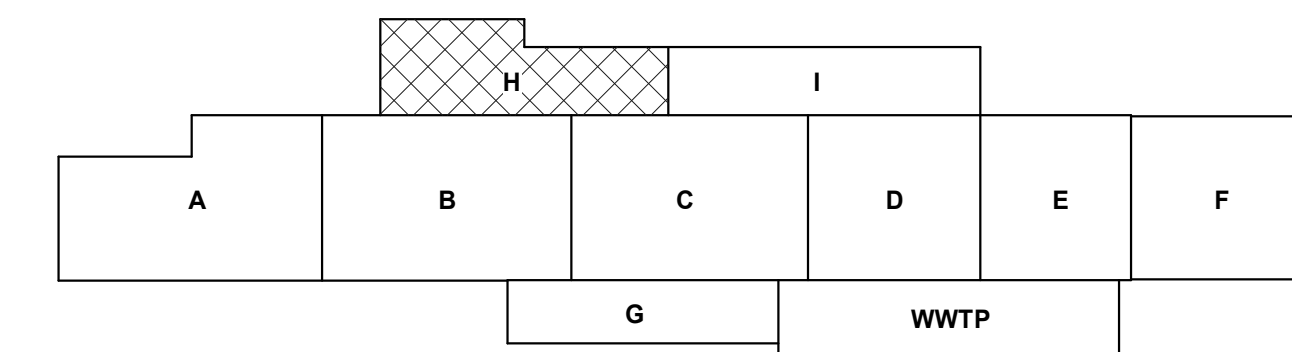
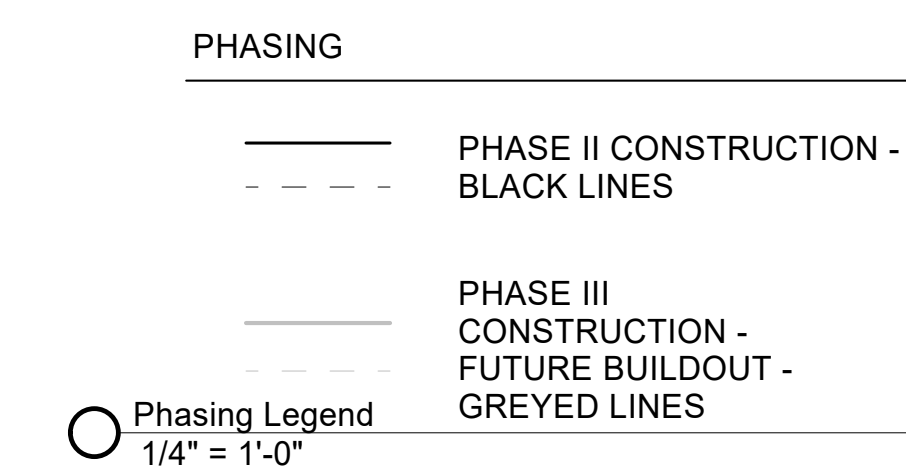


07-7200.E ROOF SHIP LADDER



BOILER EQUIPMENT BY OTHERS (REF. ONLY)

DOUBLE FORMER



KEY PLAN

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022

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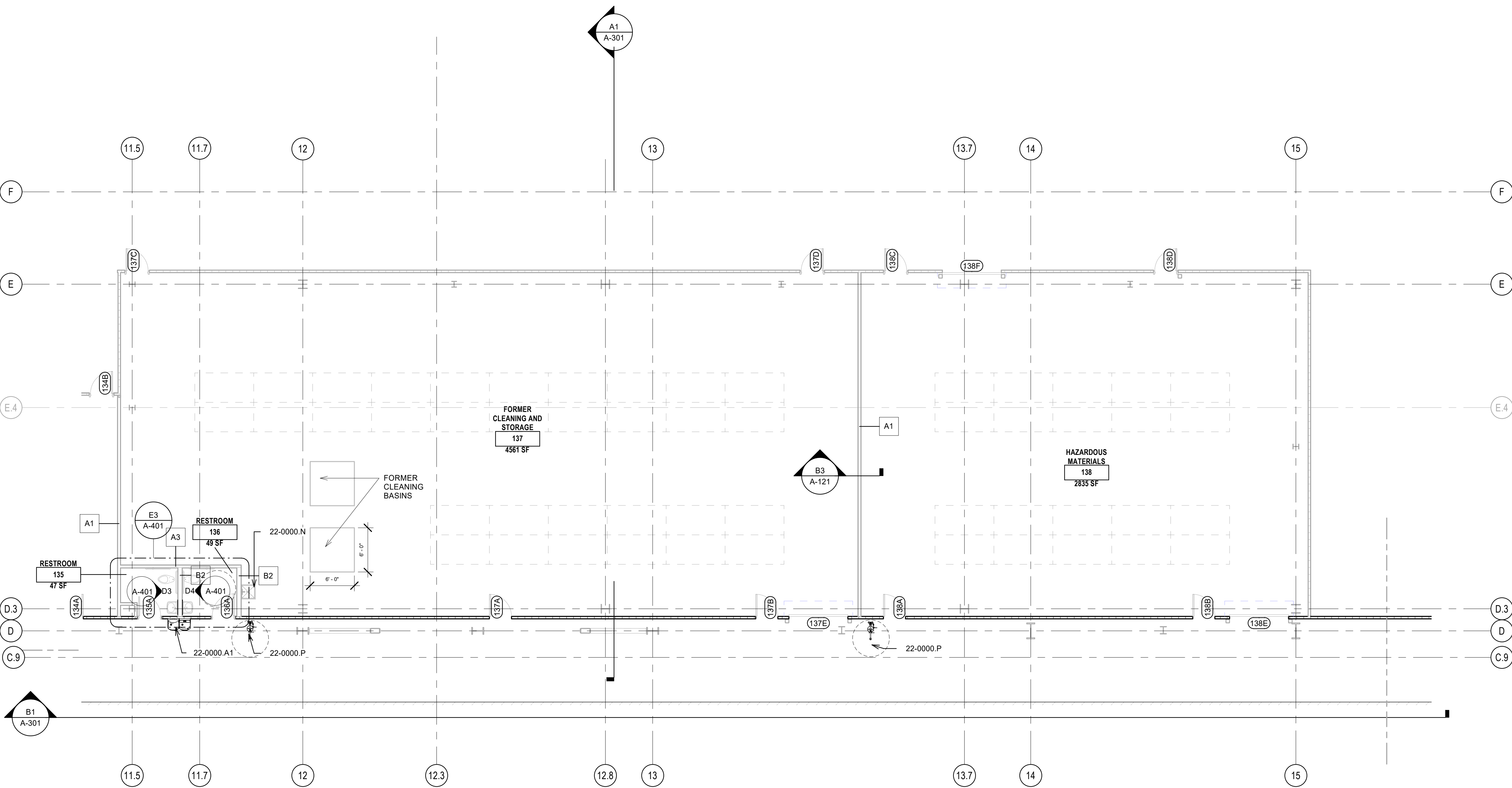
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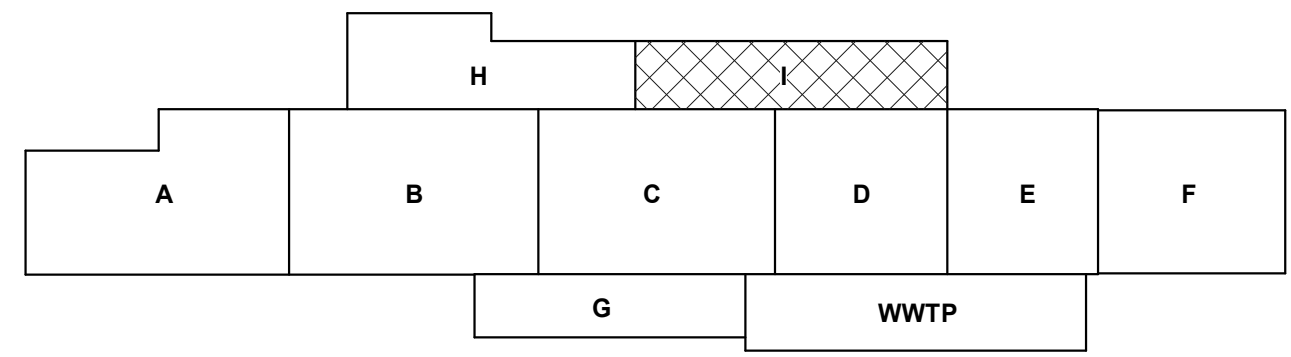
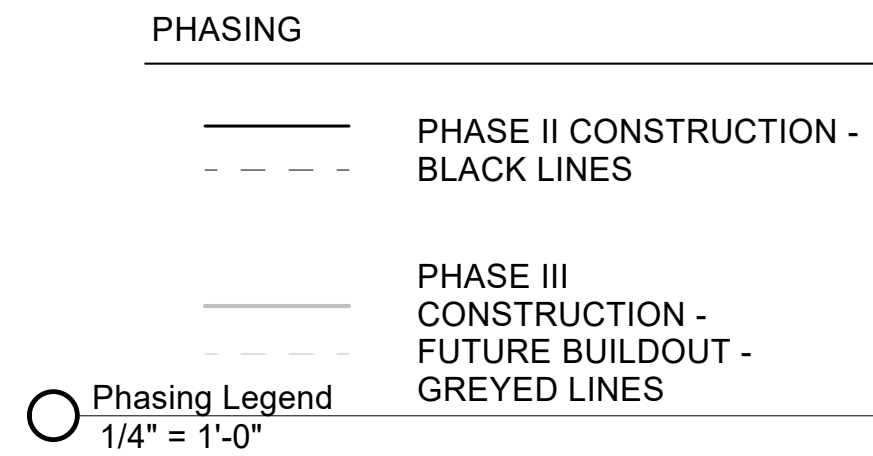
Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



B1 FLOOR PLAN - AREA I MECHANICAL

1/8" = 1'-0"



GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
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REFERENCE KEYNOTES

22-0000.A1 DRINKING FOUNTAIN/ EWC
22-0000.N MOP SINK
22-0000.P EYE WASH STATION

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
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SHEET TITLE

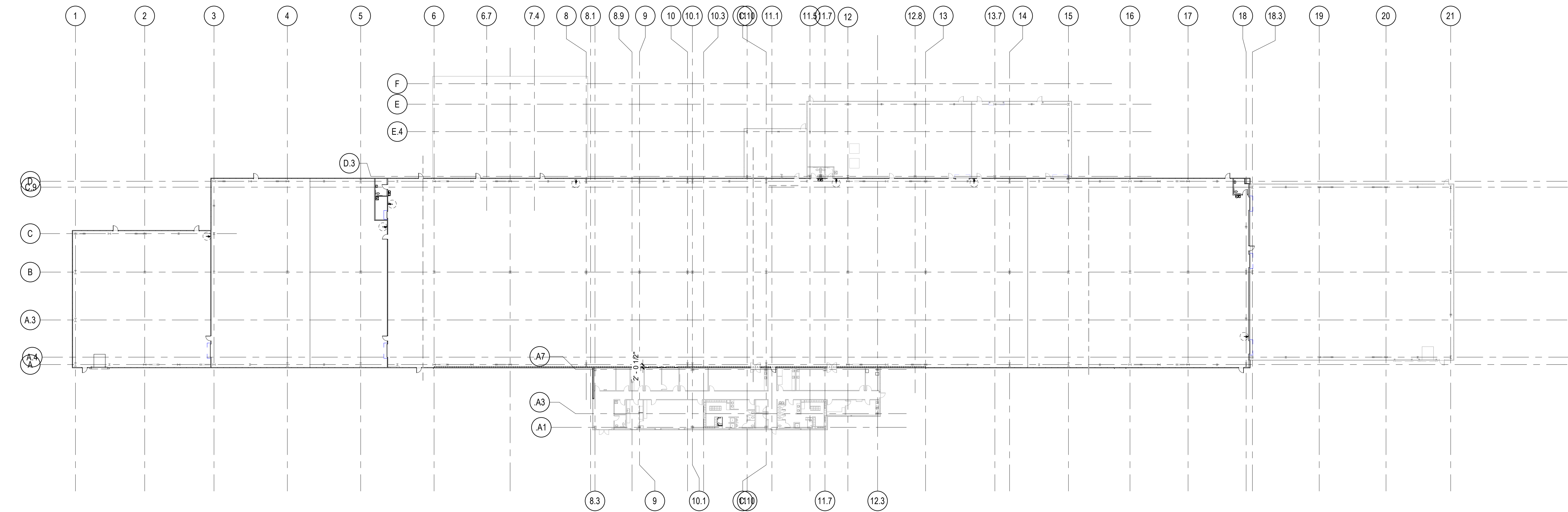
FLOOR PLAN - AREA I MECH

SHEET NUMBER

A-109

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory ARCH_1.rvt



B1 DIMENSION FLOOR PLAN
1/32" = 1'-0"



- PHASING**
- PHASE II CONSTRUCTION - BLACK LINES
 - - - PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES
- Phasing Legend**
1/4" = 1'-0"

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS

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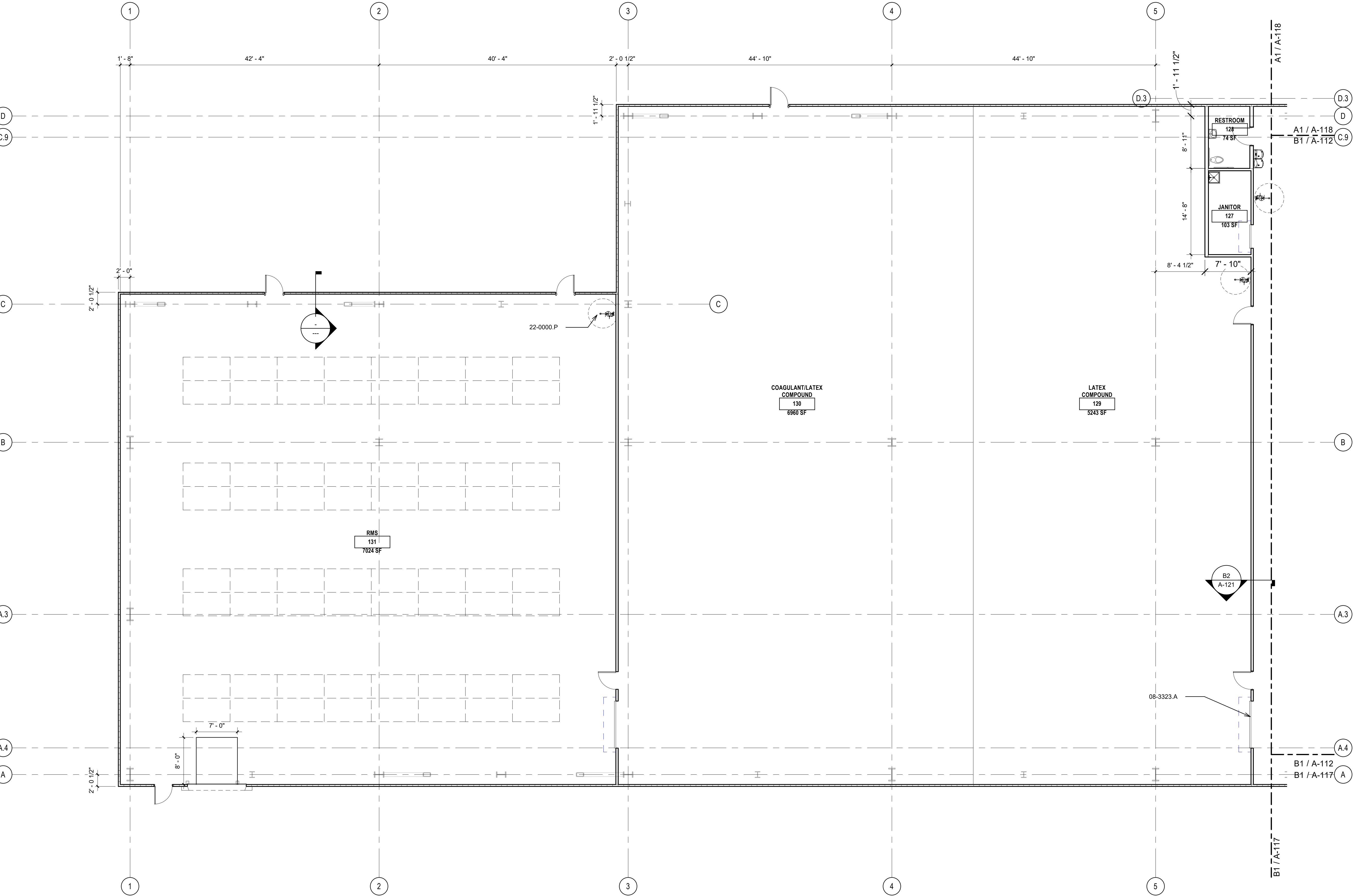
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SHEET TITLE
**DIMENSION FLOOR
PLAN - OVERALL**

SHEET NUMBER
A-110
Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

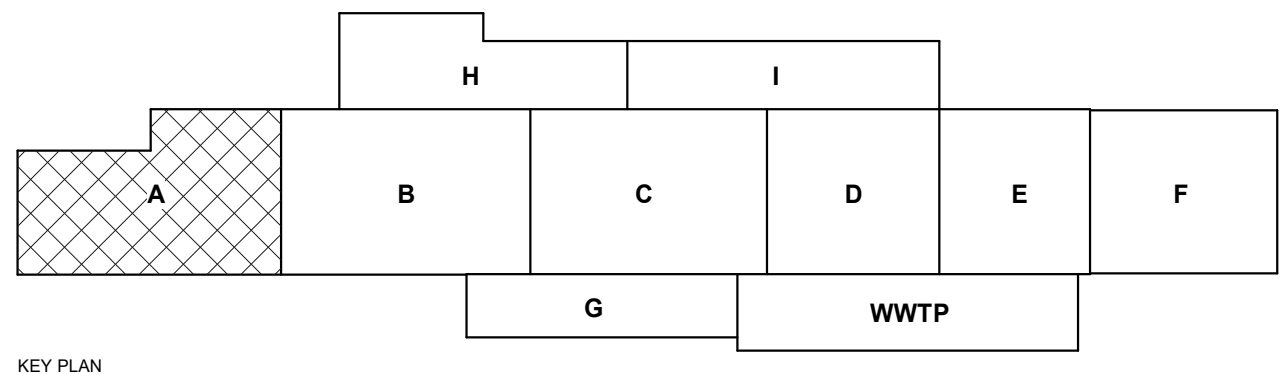


B1 FLOOR PLAN
1/8" = 1'-0"

PHASING

— PHASE II CONSTRUCTION - BLACK LINES
- - - PHASE III CONSTRUCTION - GREYED LINES
- - - FUTURE BUILDOUT - GREYED LINES

○ Phasing Legend
1/4" = 1'-0"



GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

SHEET KEYNOTES

07 EQUIPMENT BY OTHERS

REFERENCE KEYNOTES

08-3323 A COILING DOOR
22-0000 P EYE WASH STATION

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022

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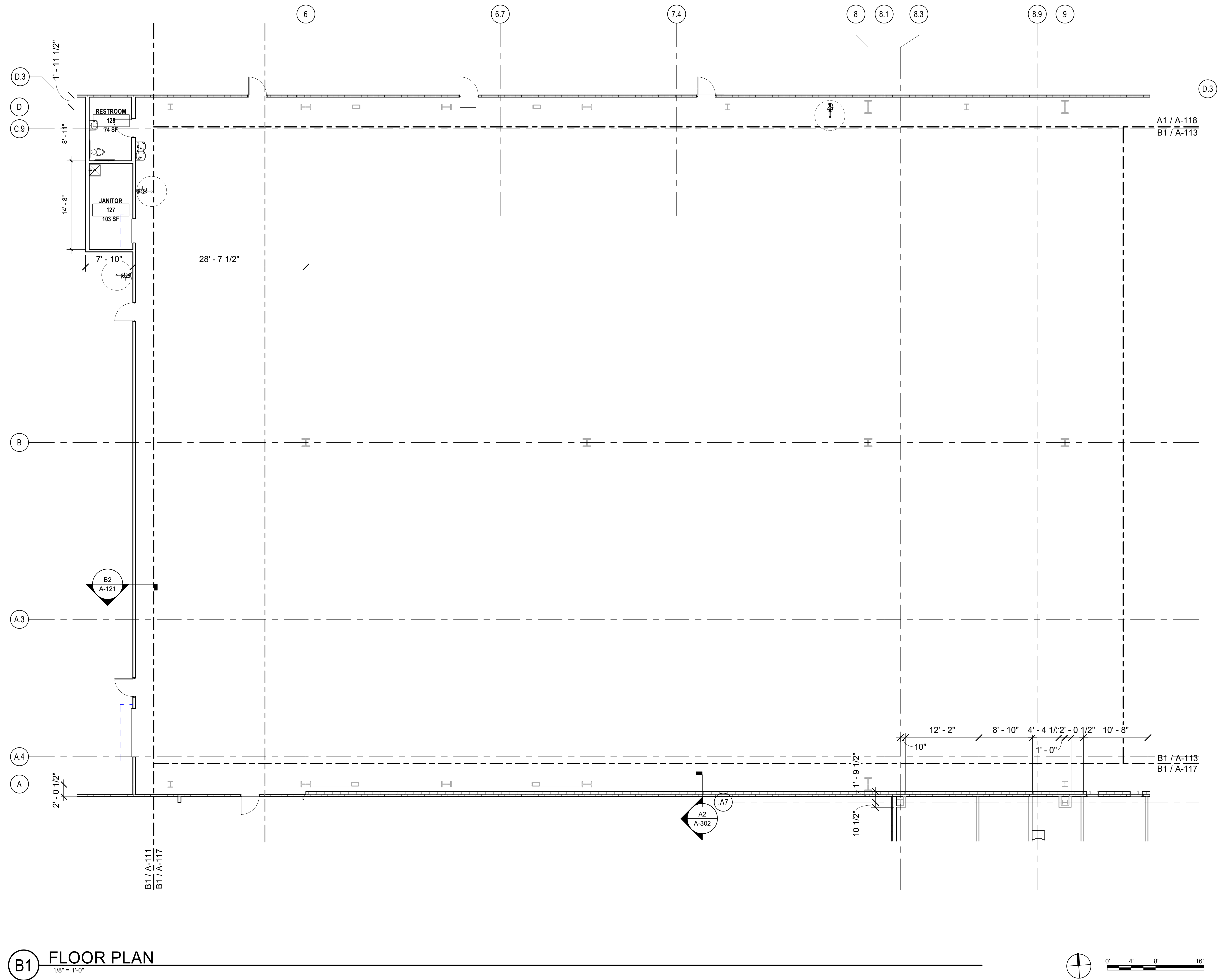
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SHEET TITLE
DIMENSION FLOOR PLAN - AREA A

SHEET NUMBER

A-111

Sequence of



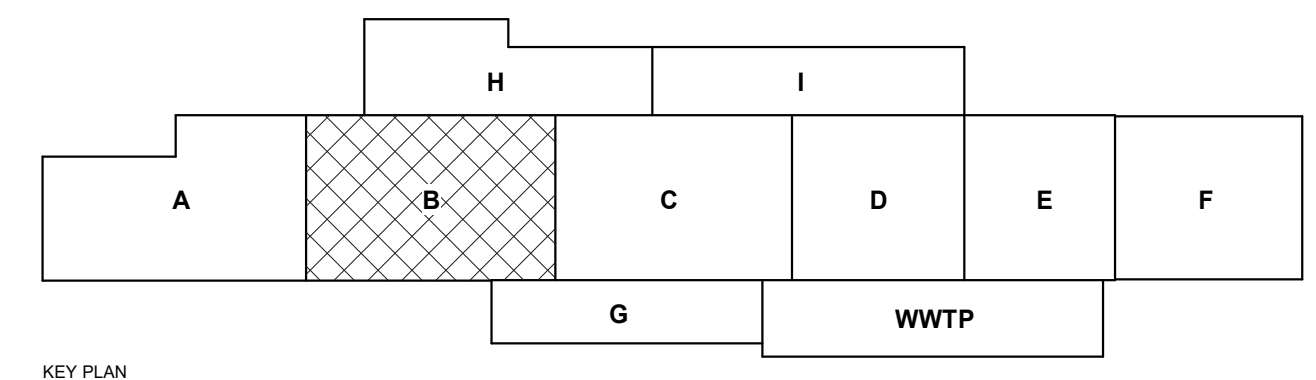
B1 FLOOR PLAN
1/8" = 1'-0"

PHASING

— — — — — PHASE II CONSTRUCTION -
BLACK LINES

PHASE III
CONSTRUCTION -
FUTURE BUILDOUT -
GREYED LINES

○ Phasing Legend
1/4" = 1'-0"



KEY PLAN

GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

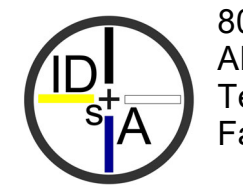
REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
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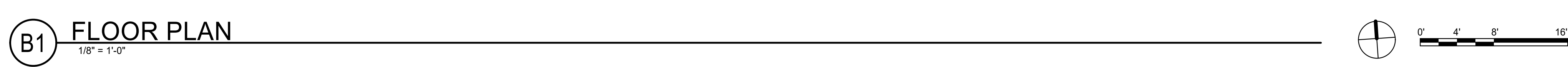
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SHEET TITLE
**DIMENSION
FLOOR
PLAN -
AREA B**

SHEET NUMBER

A-112


Sequence of

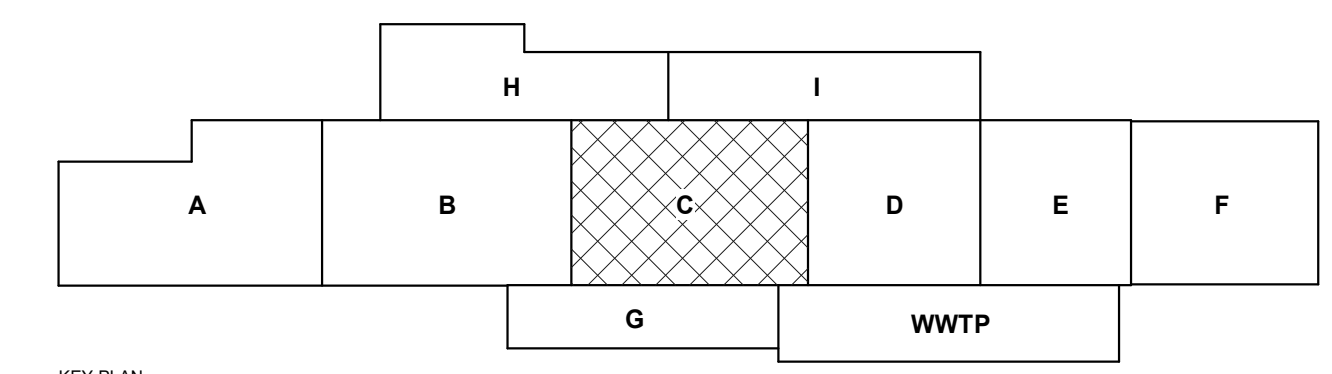


PHASING

————— PHASE II CONSTRUCTION -
- - - - - BLACK LINES


————— PHASE III
- - - - - CONSTRUCTION -
- - - - - FUTURE BUILDOUT -
- - - - - GREYED LINES

 Phasing Legend
1/4" = 1'-0"



1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

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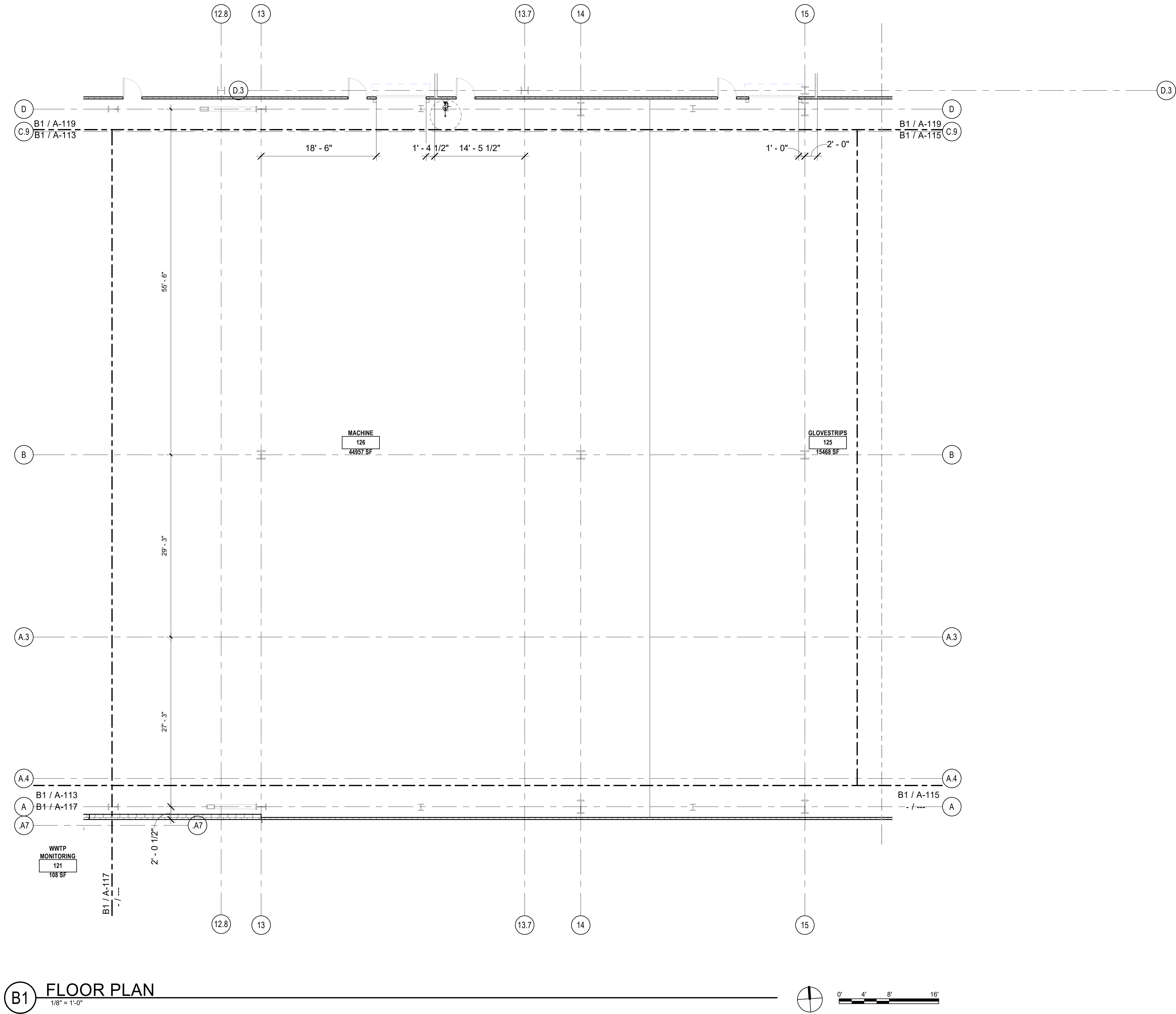
**DIMENSION
FLOOR
PLAN -
AREA C**

SHEET NUMBER

A-113

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



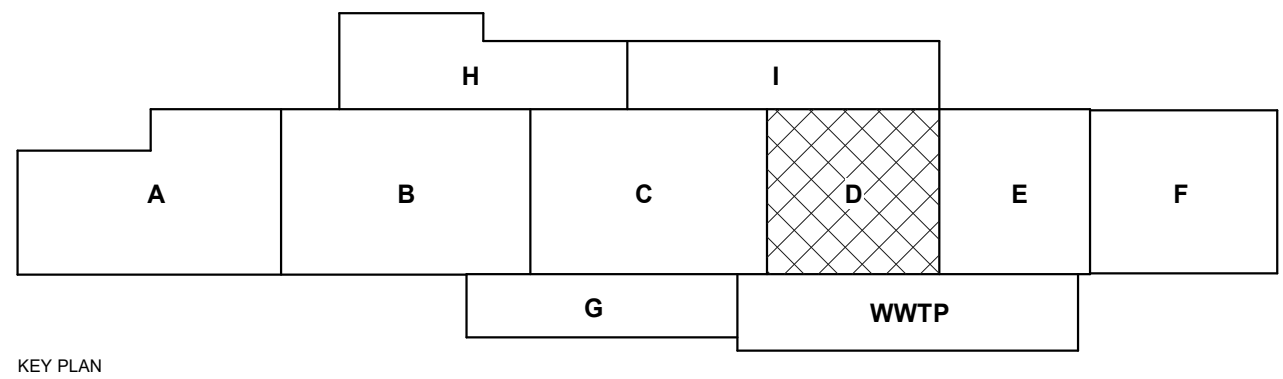
B1 FLOOR PLAN
1/8" = 1'-0"

PHASING

— PHASE II CONSTRUCTION - BLACK LINES
- - - FUTURE BUILDOUT - GREYED LINES

— PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES
- - - FUTURE BUILDOUT - GREYED LINES

○ Phasing Legend
1/4" = 1'-0"



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022
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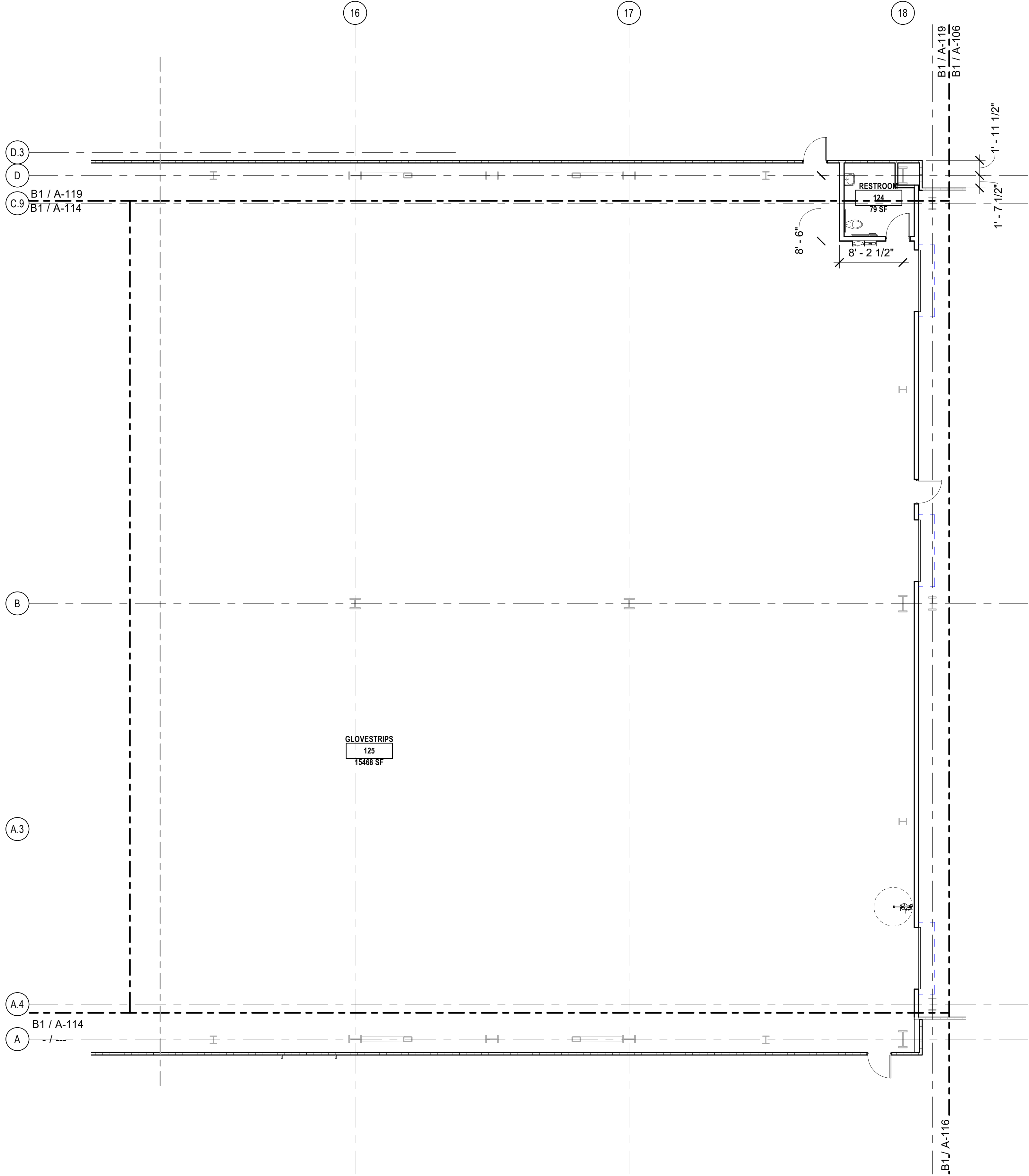
SHEET TITLE
DIMENSION FLOOR PLAN - AREA D

SHEET NUMBER

A-114

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

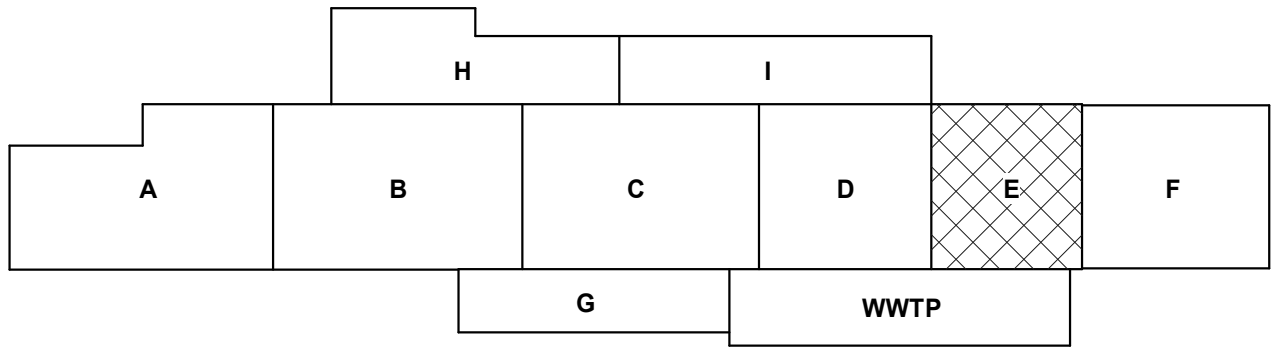


B1 FLOOR PLAN
1/8" = 1'-0"

PHASING

— PHASE II CONSTRUCTION - BLACK LINES
- - - PHASE III CONSTRUCTION - GREYED LINES

○ Phasing Legend
1/4" = 1'-0"



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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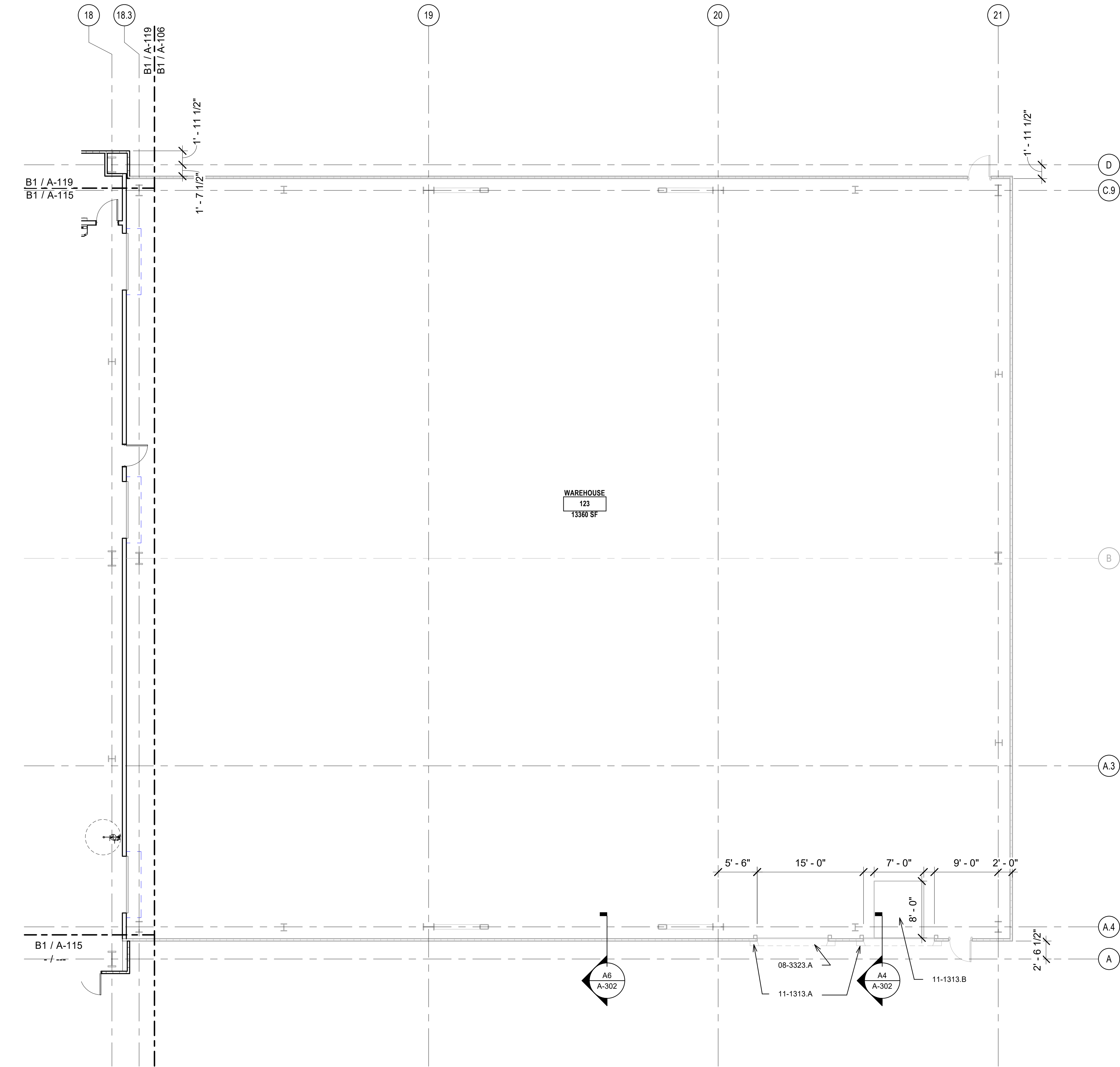
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DIMENSION FLOOR PLAN - AREA E

SHEET NUMBER

A-115

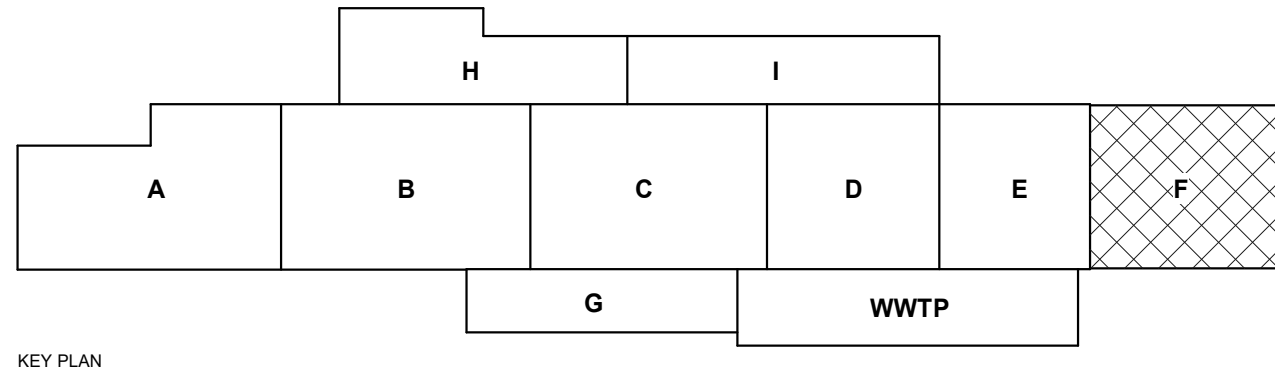
Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



B1 FLOOR PLAN
1/8" = 1'-0"

- PHASING**
- PHASE II CONSTRUCTION - BLACK LINES
 - - - PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES
- Phasing Legend
1/4" = 1'-0"



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

- 08-3323 A COILING DOOR
- 11-1313 A LOADING DOCK BUMPERS
- 11-1313 B LOADING DOCK LEVELER

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022

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DIMENSION FLOOR PLAN - AREA F WAREHOUSE

SHEET NUMBER

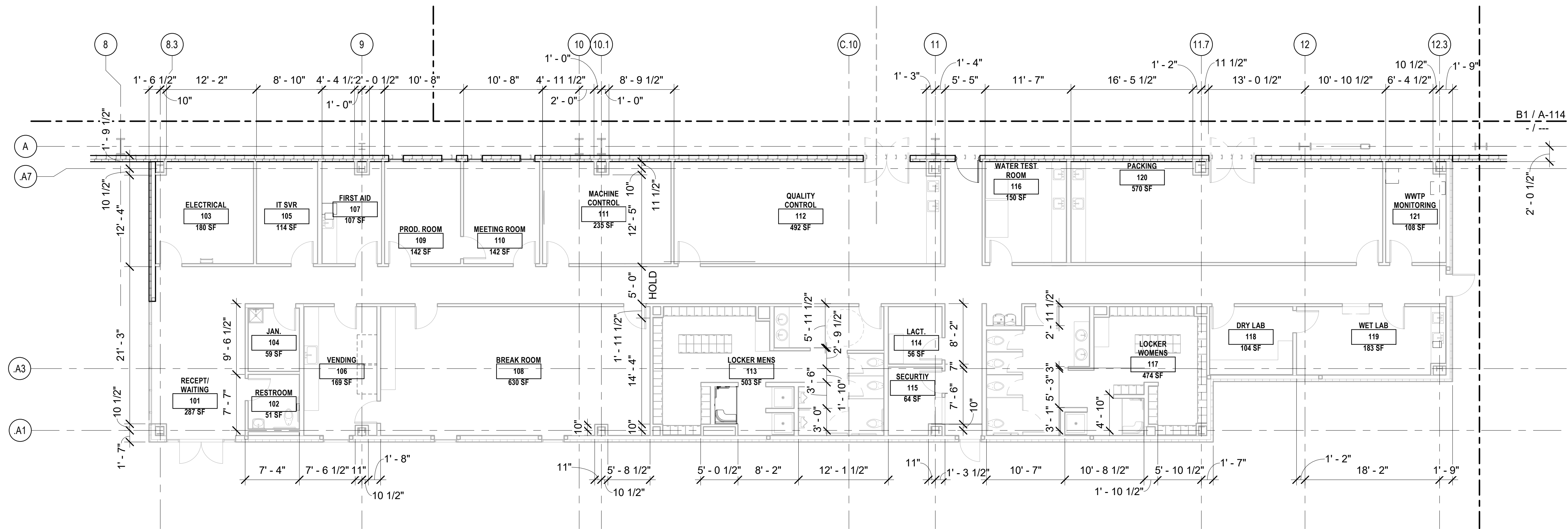
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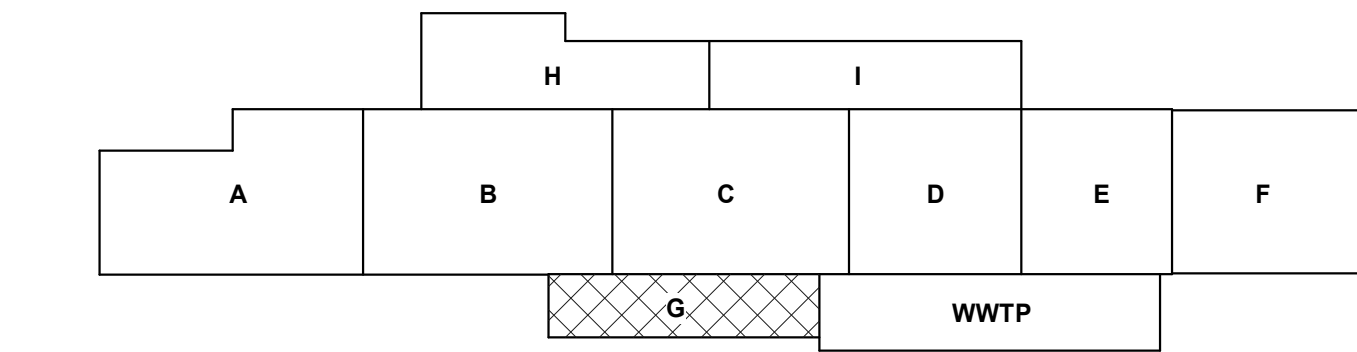
BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

B1 FLOOR PLAN

1/8" = 1'-0"



- PHASING
- PHASE II CONSTRUCTION - BLACK LINES
 - PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES
- Phasing Legend
1/4" = 1'-0"



GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

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SHEET
DIMENSION
FLOOR
PLAN -
AREA G
ADMIN

SHEET NUMBER

A-117

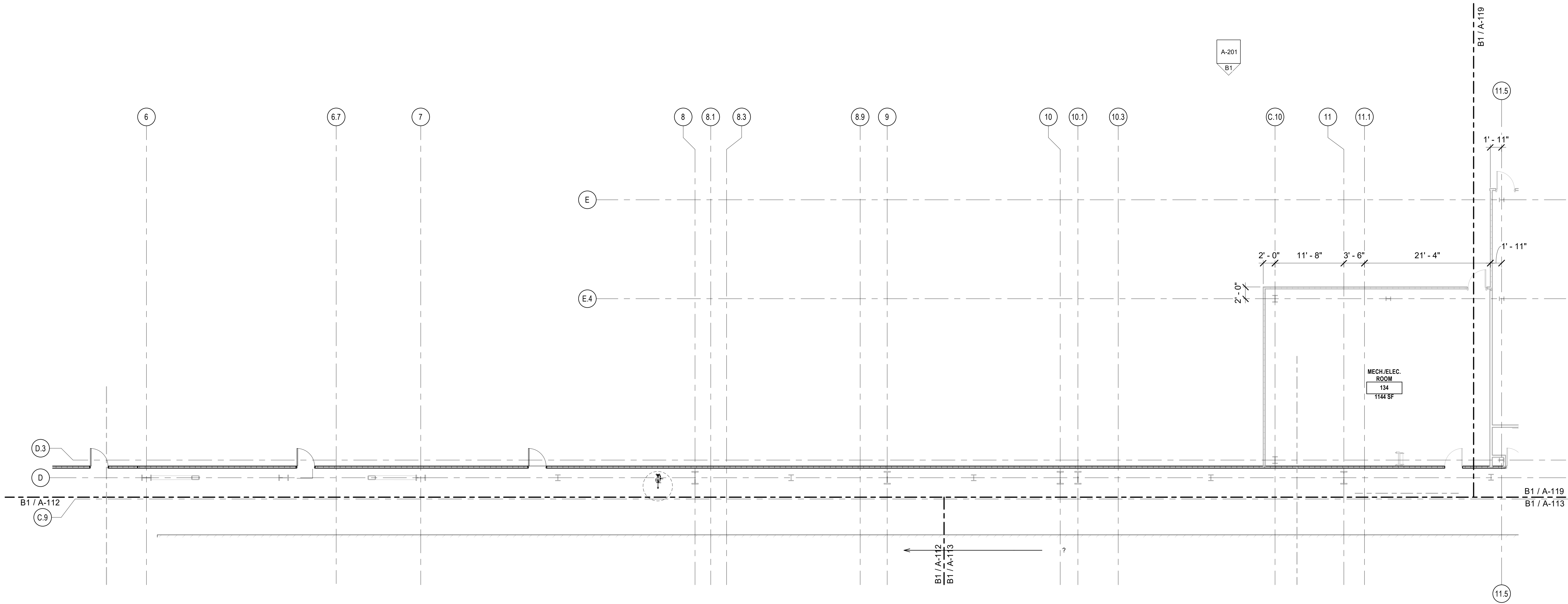
Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES



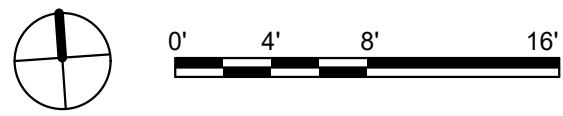
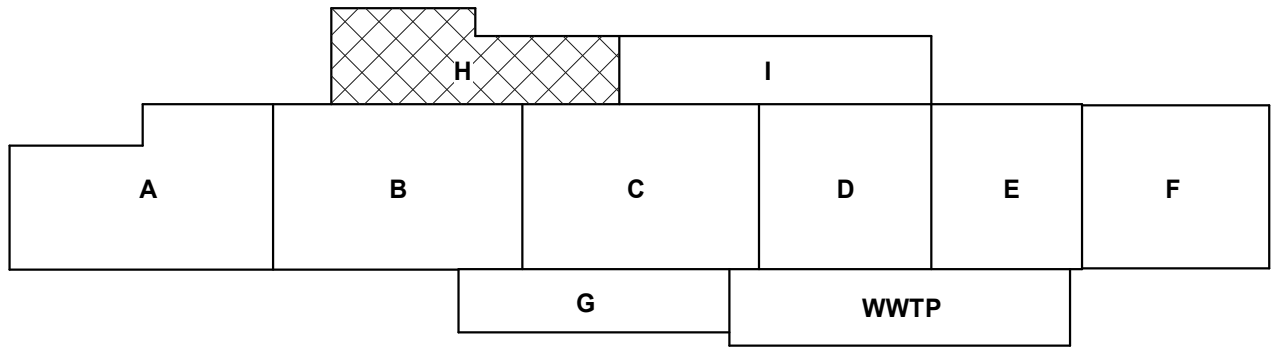
A1 FLOOR PLAN
1/8" = 1'-0"

PHASING

— PHASE II CONSTRUCTION - BLACK LINES

--- PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES

○ Phasing Legend
1/4" = 1'-0"



CHURCH ROCK PHASE II FACTORY

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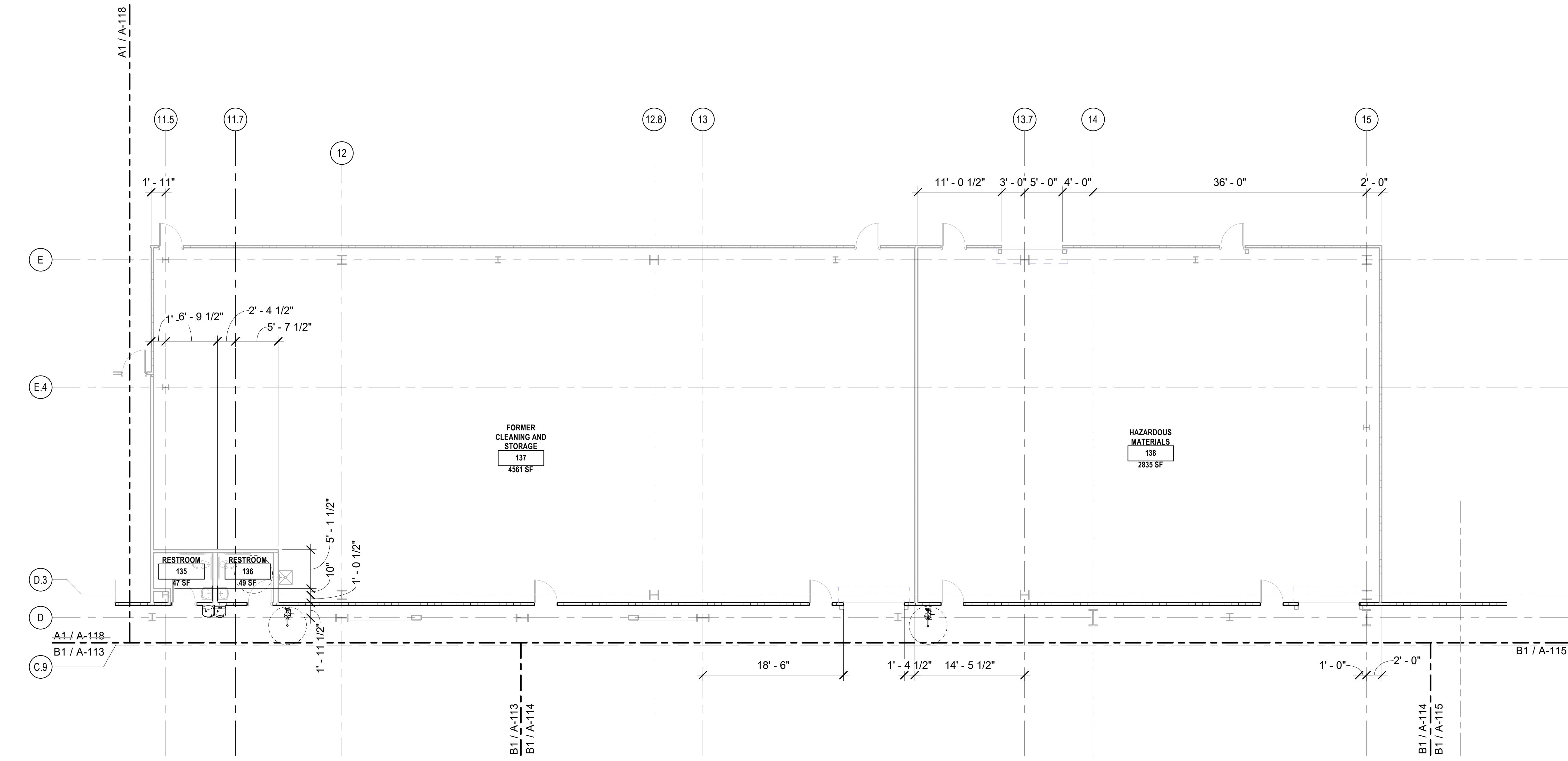
SHEET TITLE
DIMENSION FLOOR PLAN - AREA H

SHEET NUMBER

A-118

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

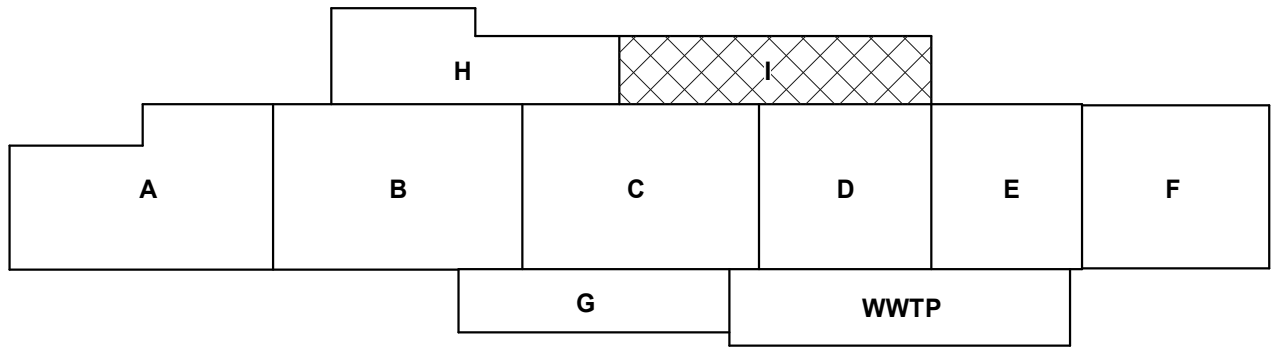


B1 FLOOR PLAN
1/8" = 1'-0"

PHASING

— PHASE II CONSTRUCTION - BLACK LINES
- - - PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES

○ Phasing Legend
1/4" = 1'-0"



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022
OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

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ARCHITECT

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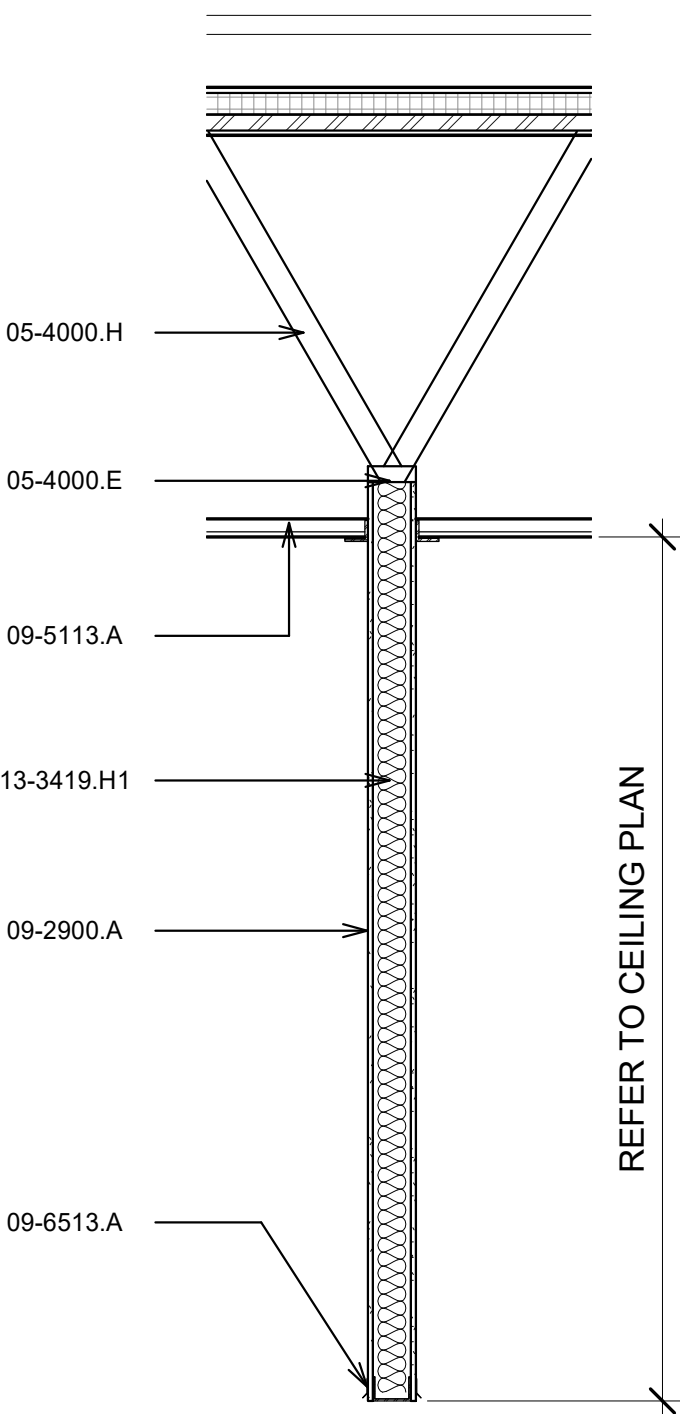
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DIMENSION FLOOR PLAN - AREA I

SHEET NUMBER

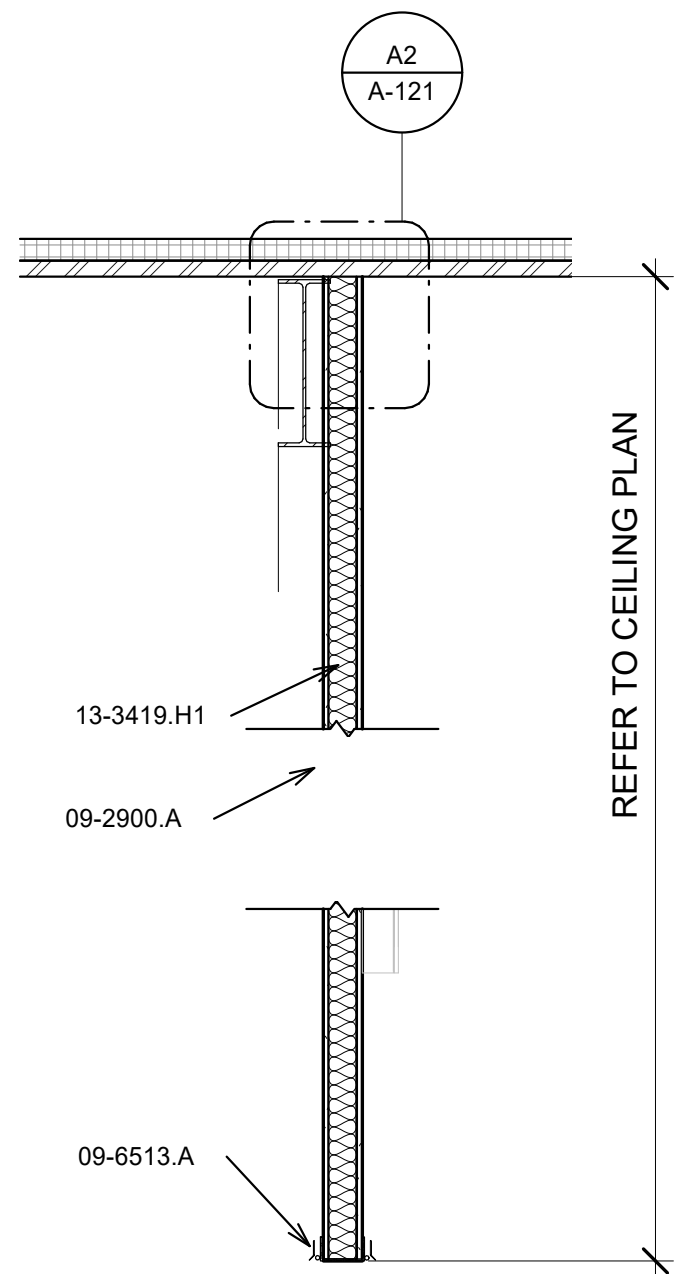
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Sequence of

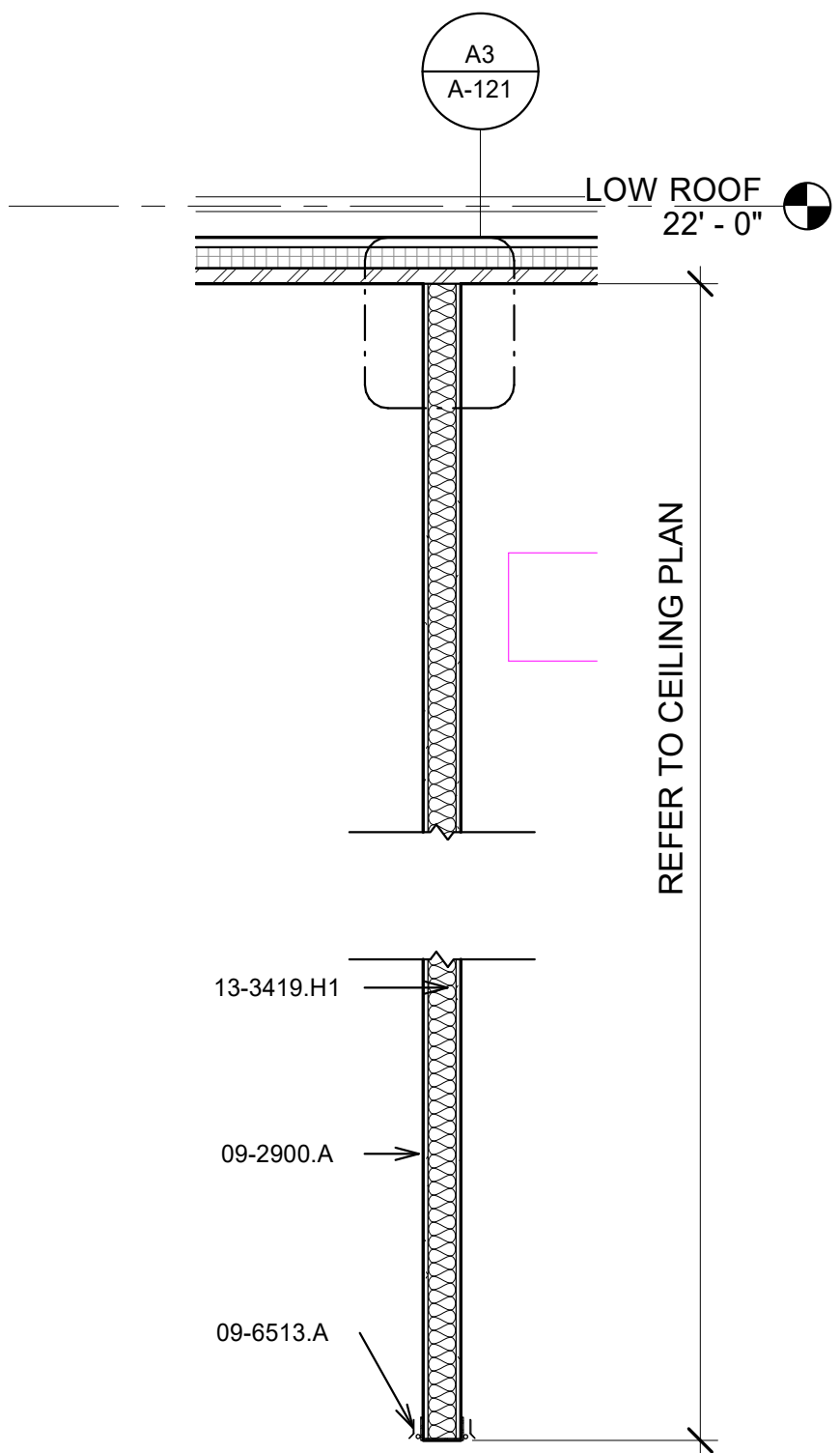
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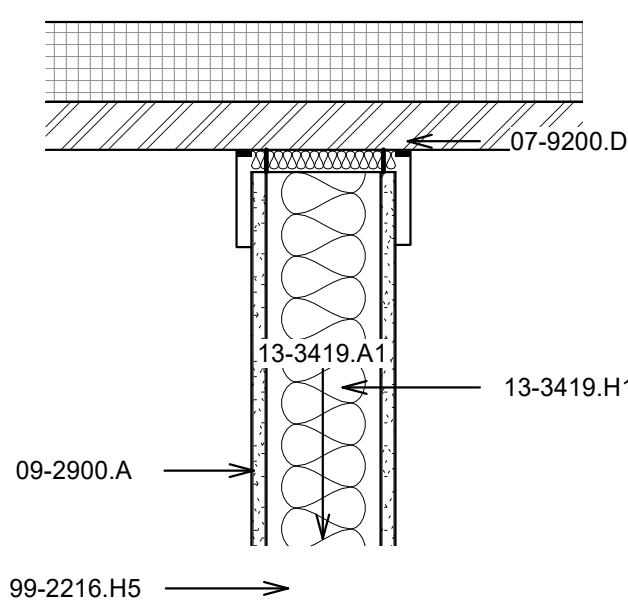
B1 PARTITION TYPE A
1/2" = 1'-0"



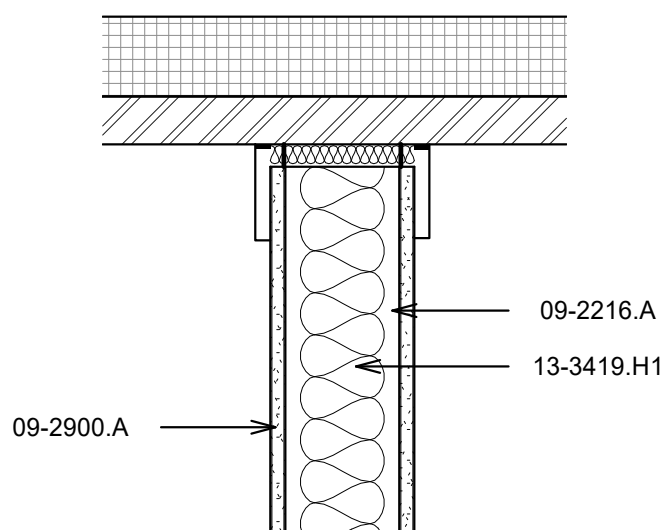
B2 PARTITION TYPE B
1/2" = 1'-0"



B3 PARTITION TYPE B1
1/2" = 1'-0"



A2 PARTITION CALLOUT B
1 1/2" = 1'-0"



A3 PARTITION CALLOUT B1
1 1/2" = 1'-0"

GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

05-4000.E	RUNNER TRACK
05-4000.H	BRACING
07-9200.D	5/8" JOINT WIDTH W/SEALANT
09-2216.A	METAL STUD
09-2900.A	GYPSUM BOARD, 5/8", TYPE X
09-5113.A	ACOUSTICAL PANEL, 2x2
09-6513.A	RESILIENT BASE
13-3419.A1	PRE-ENGINEERED BUILDING SYSTEM, PER MANUFACTURER
13-3419.H1	BATT INSULATION, 6", VINYL FACED
99-2216.H5	METAL TRACK MECHANICALLY FASTENED TO DECK

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022

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SHEET TITLE

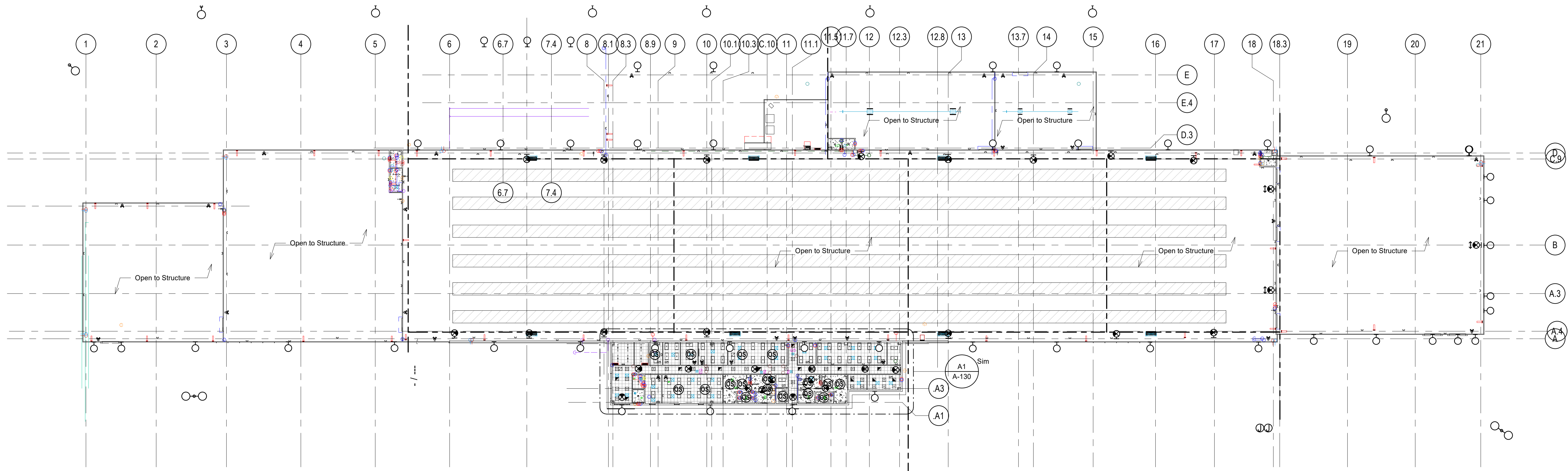
PARTITION TYPES

SHEET NUMBER

A-121

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory ARCH_1.rvt



GENERAL NOTES

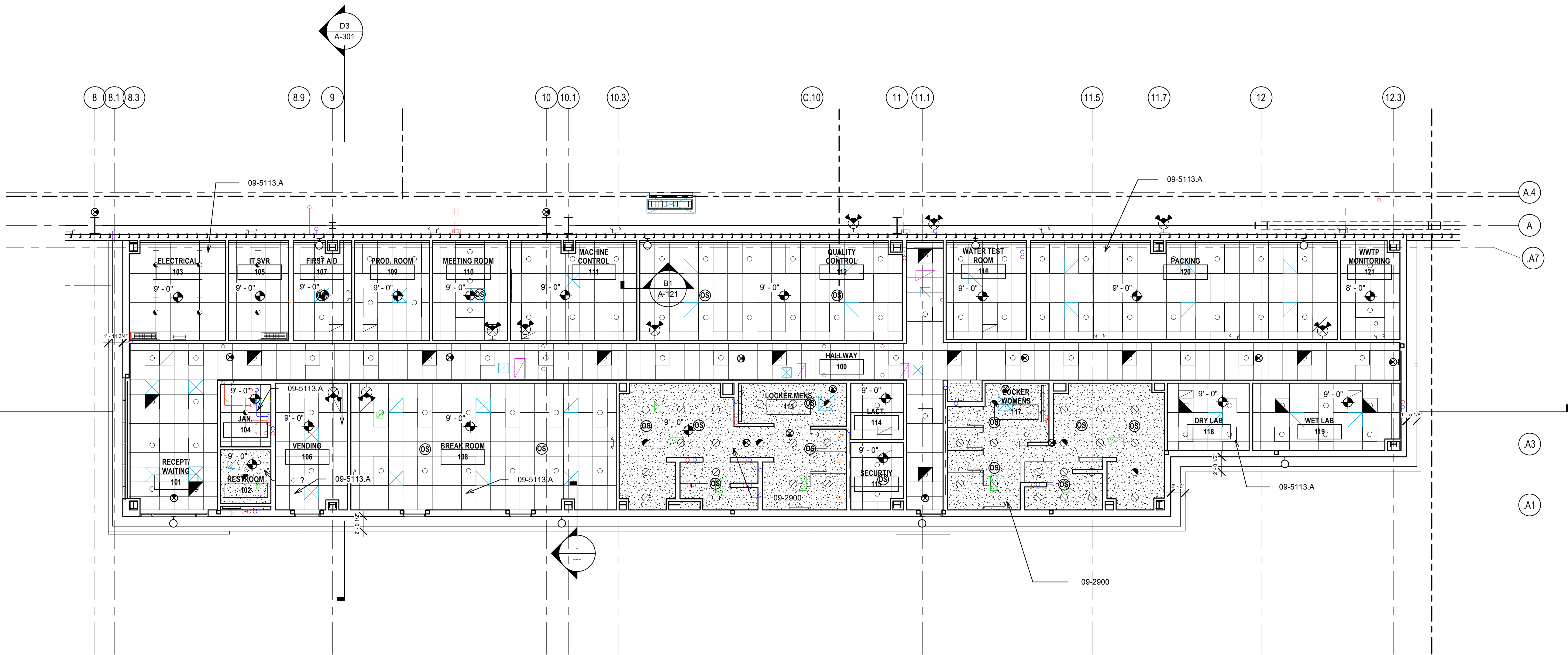
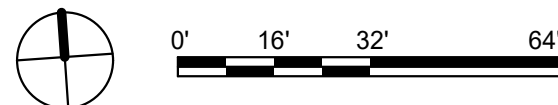
- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

08-2900 GYPSUM BOARD
09-5113.A ACOUSTICAL PANEL, 2x2

D1 REFLECTED CEILING PLAN

1/32" = 1'-0"



A1 ENLARGED REFLECTED CEING PLAN - AREA G ADMIN

1/8" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

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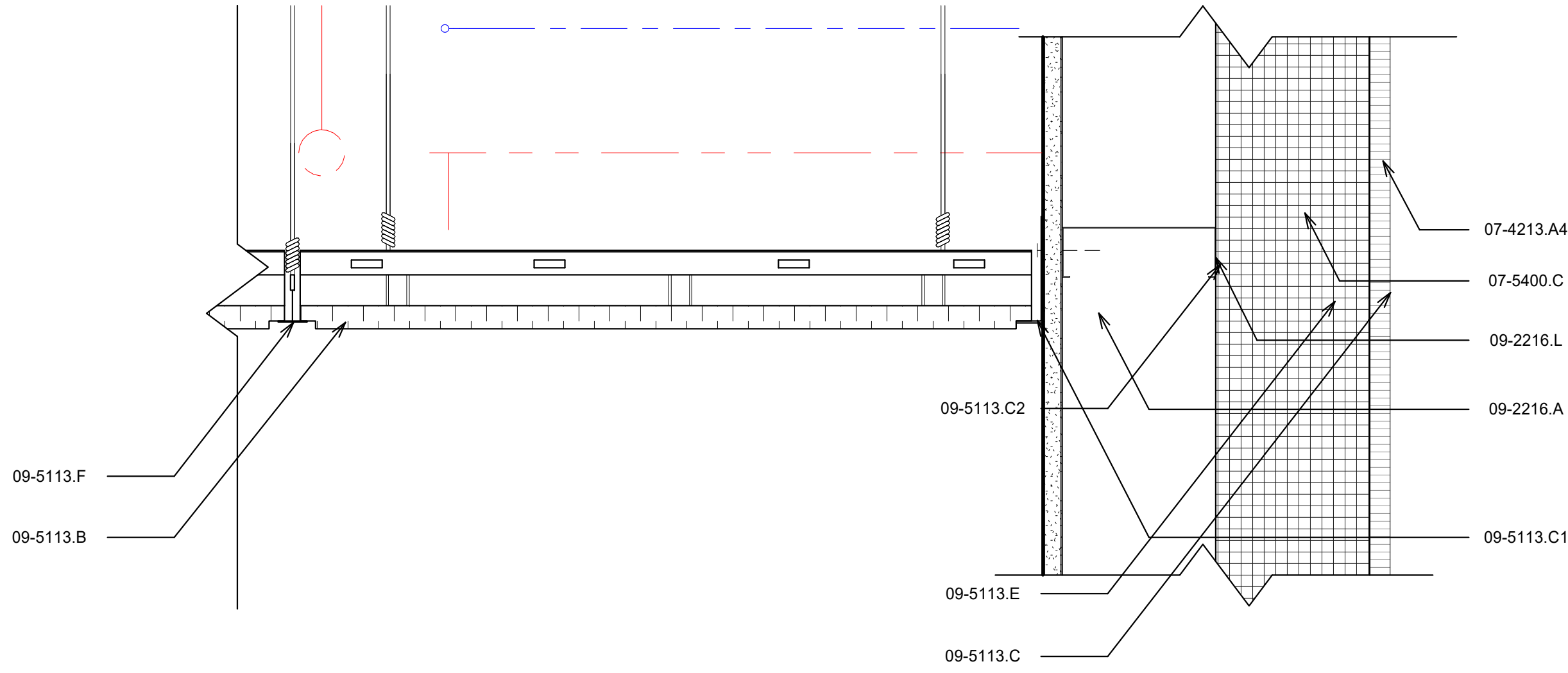
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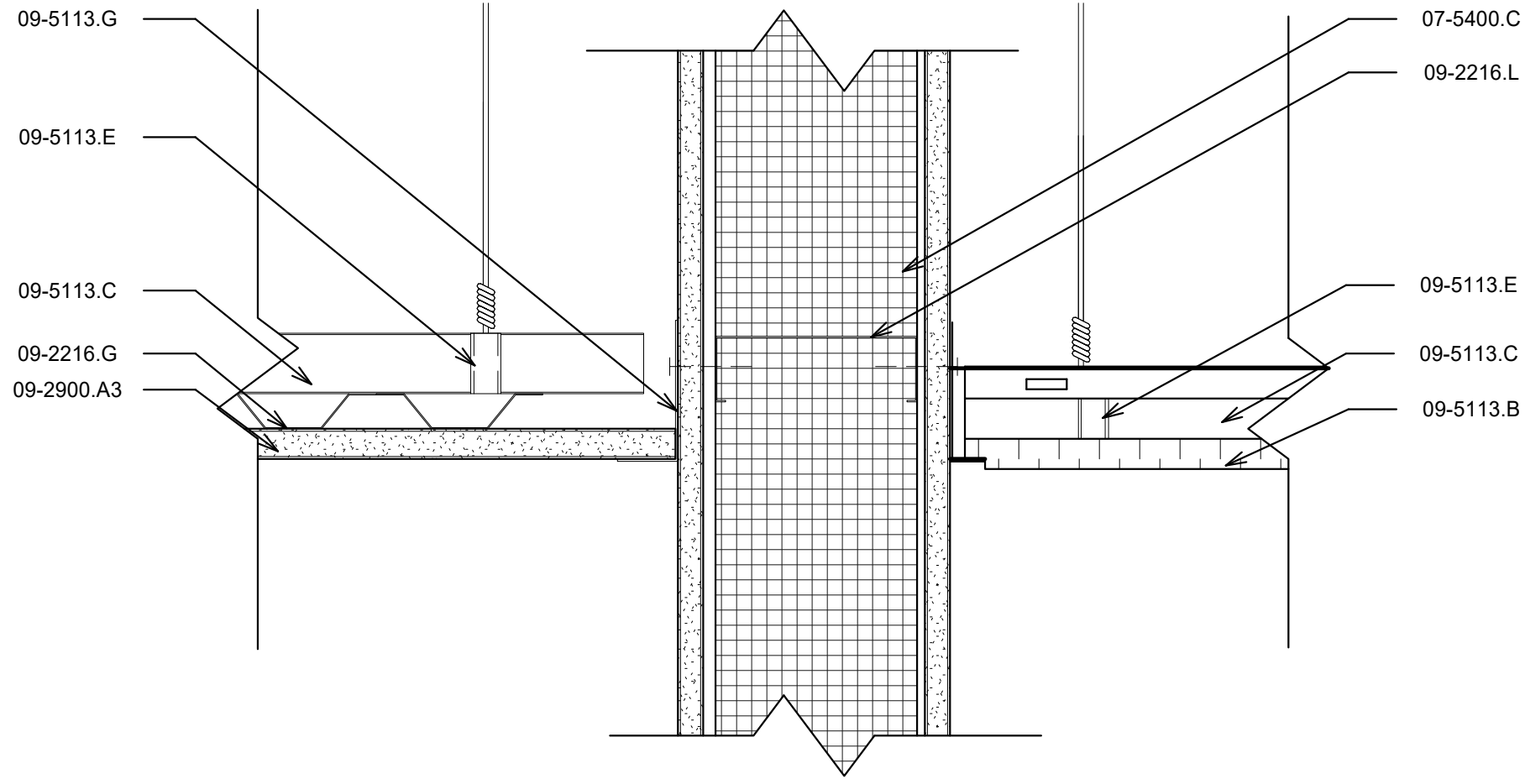
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BIM 360://Church Rock Phase II Factory/CR Factory/ARCH_1.rvt



E1 DETAIL AT ACT TO ADMIN EXTERIOR WALL
3" = 1'-0"



C1 DETAIL AT GYP. TO ACT TRANSITION
3" = 1'-0"

GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

07-4213.A4	KINGSPAN SERIES AZTECO FINISH
07-5400.C	POLYISO INSULATION BOARD, 5"
09-2216.A	METAL STUD
09-2216.G	FURRING CHANNEL
09-2216.L	C STUD, 5"
09-2900.A3	GYP SUM BOARD, 3/4"
09-5113.B	ACOUSTICAL PANEL, 2x4
09-5113.C	METAL SUSPENSION SYSTEM
09-5113.C1	METAL EDGE TRIM, CONTINUOUS
09-5113.C2	METAL HANGER WIRES
09-5113.E	MAIN CHANNEL BRACKET
09-5113.F	SUSPENSION TEE, 15/16"
09-5113.G	LIGHT GAUGE ANGLE

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

MARCH 25, 2022

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SHEET TITLE

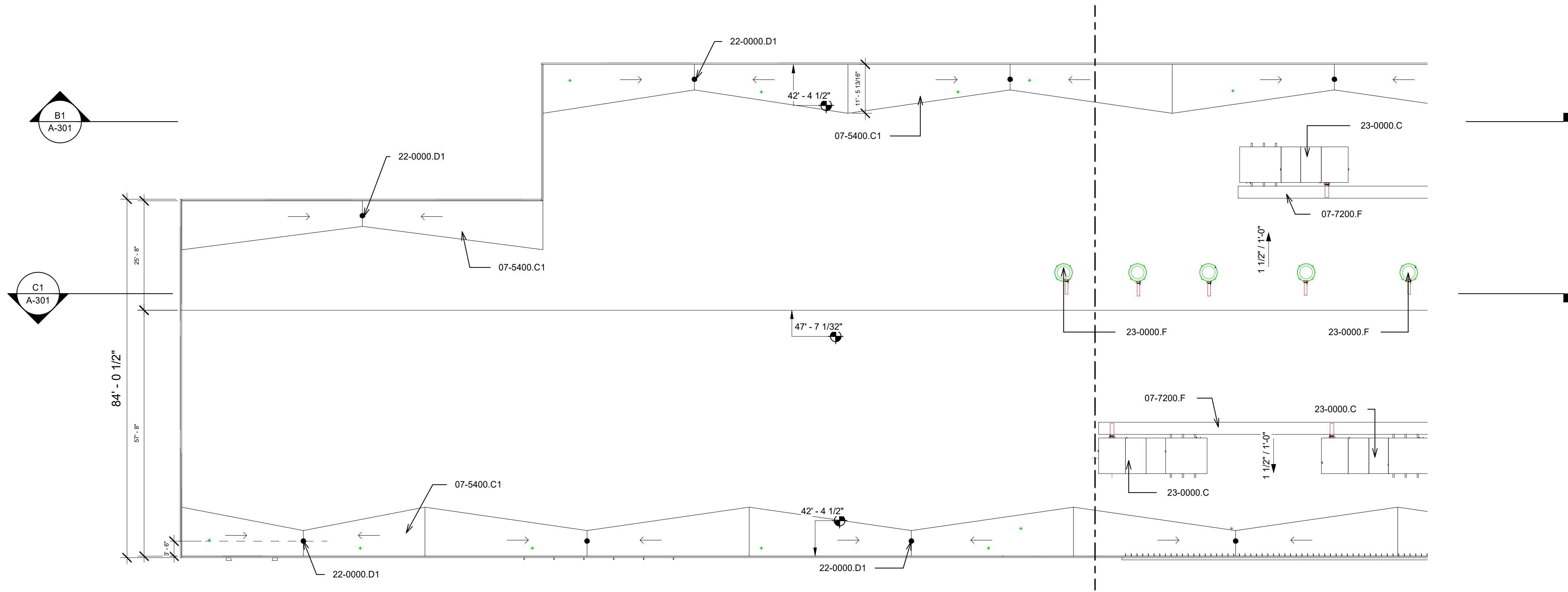
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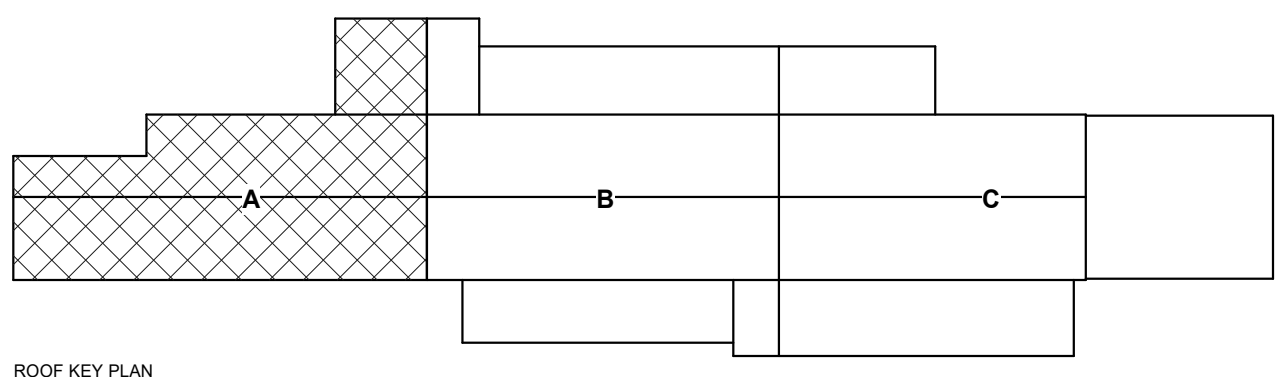
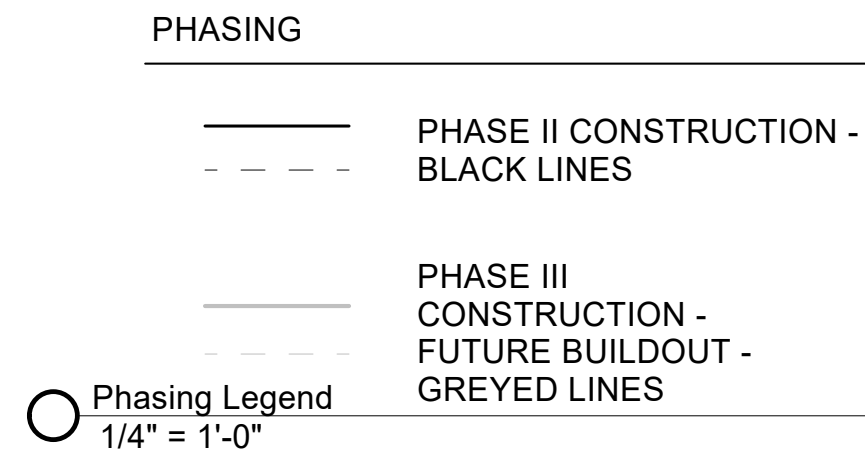
A-131

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



B1 ROOF PLAN
1/16" = 1'-0"



GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

REFERENCE KEYNOTES

- | | |
|------------|------------------------------|
| 07-5400.C1 | CRICKET, 1/8" PER FOOT SLOPE |
| 07-7200.F | ROOF WALKWAY MAT, TPO SYSTEM |
| 22-0000.D1 | ROOF DRAIN |
| 23-0000.A | MECHANICAL EQUIPMENT |
| 23-0000.C | MECHANICAL ROOF TOP UNIT |
| 23-0000.E | RETURN AIR GRILLE |
| 23-0000.F | VENT THRU ROOF |

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

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ROOF PLAN
- ENLARGED

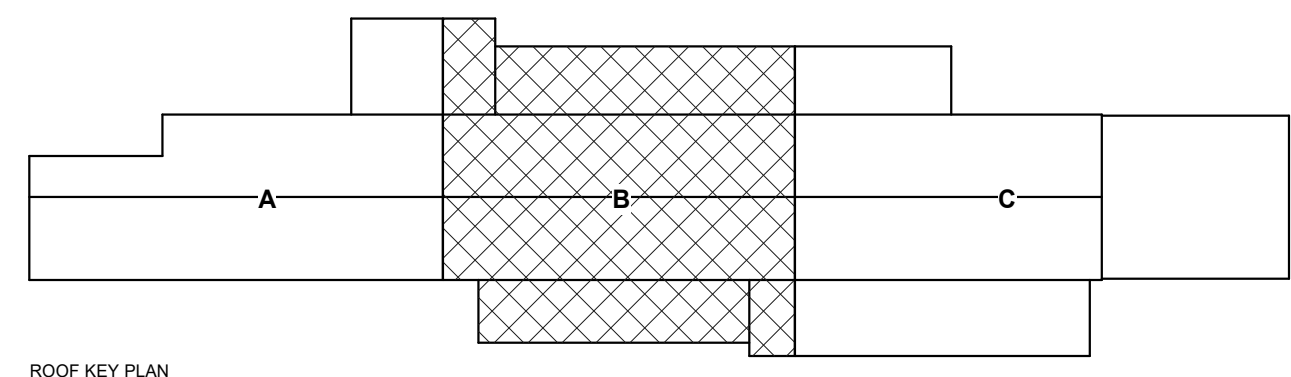
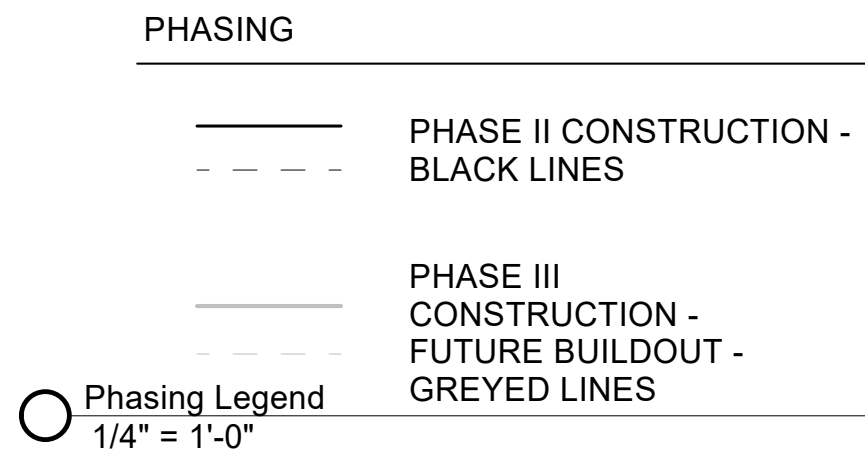
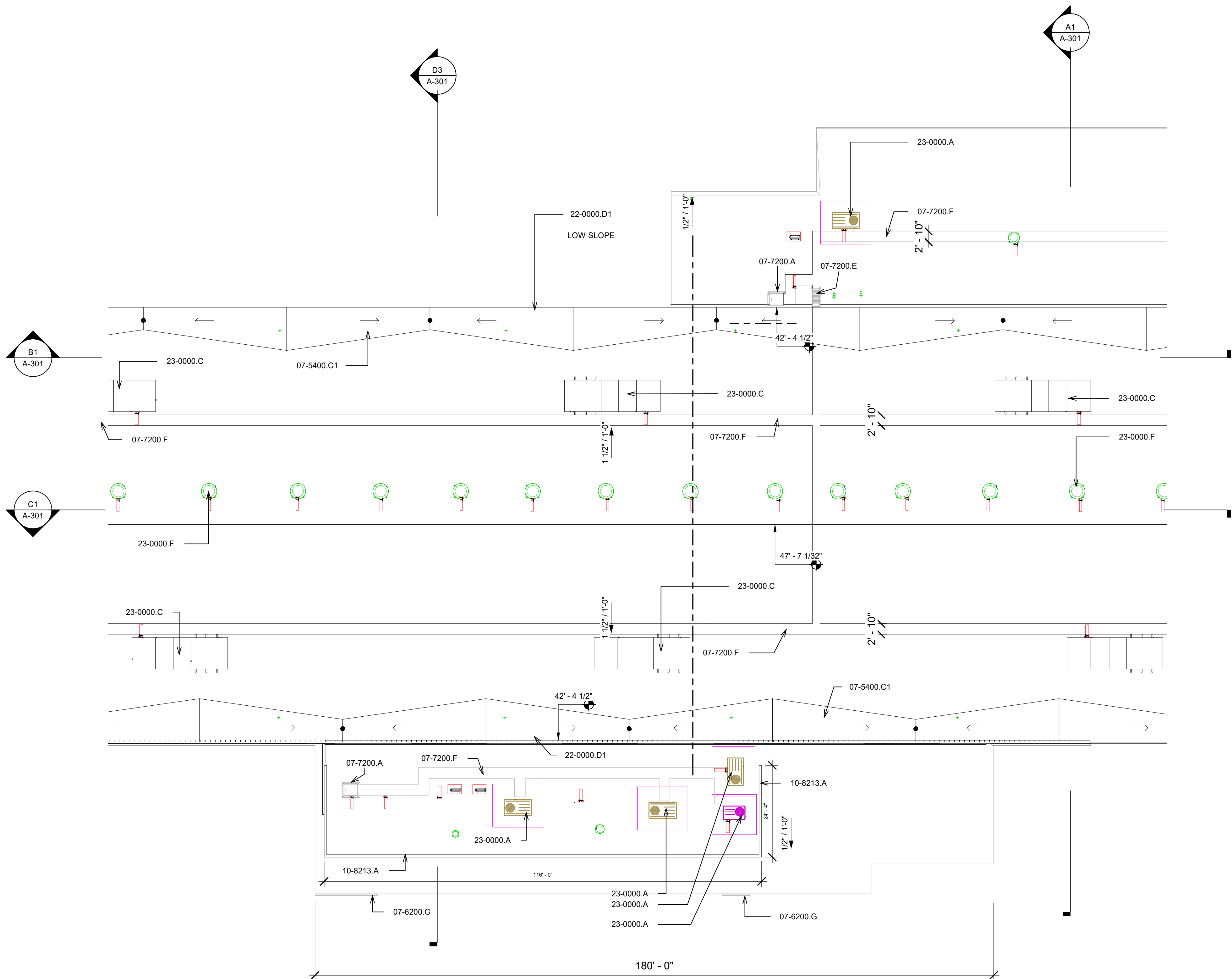
SHEET NUMBER

A-141

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

A1 ROOF PLAN
1/16" = 1'-0"



GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

07-5400.C1	CRICKET, 1/8" PER FOOT SLOPE
07-6200.G	GUTTER
07-7200.A	ROOF HATCH
07-7200.E	ROOF SHIP LADDER
07-7200.F	ROOF WALKWAY MAT, TPO SYSTEM
10-8213.A	EQUIPMENT SCREEN-ROOF MOUNTED
22-0000.D1	ROOF DRAIN
23-0000.A	MECHANICAL EQUIPMENT
23-0000.C	MECHANICAL ROOF TOP UNIT
23-0000.F	VENT THRU ROOF

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
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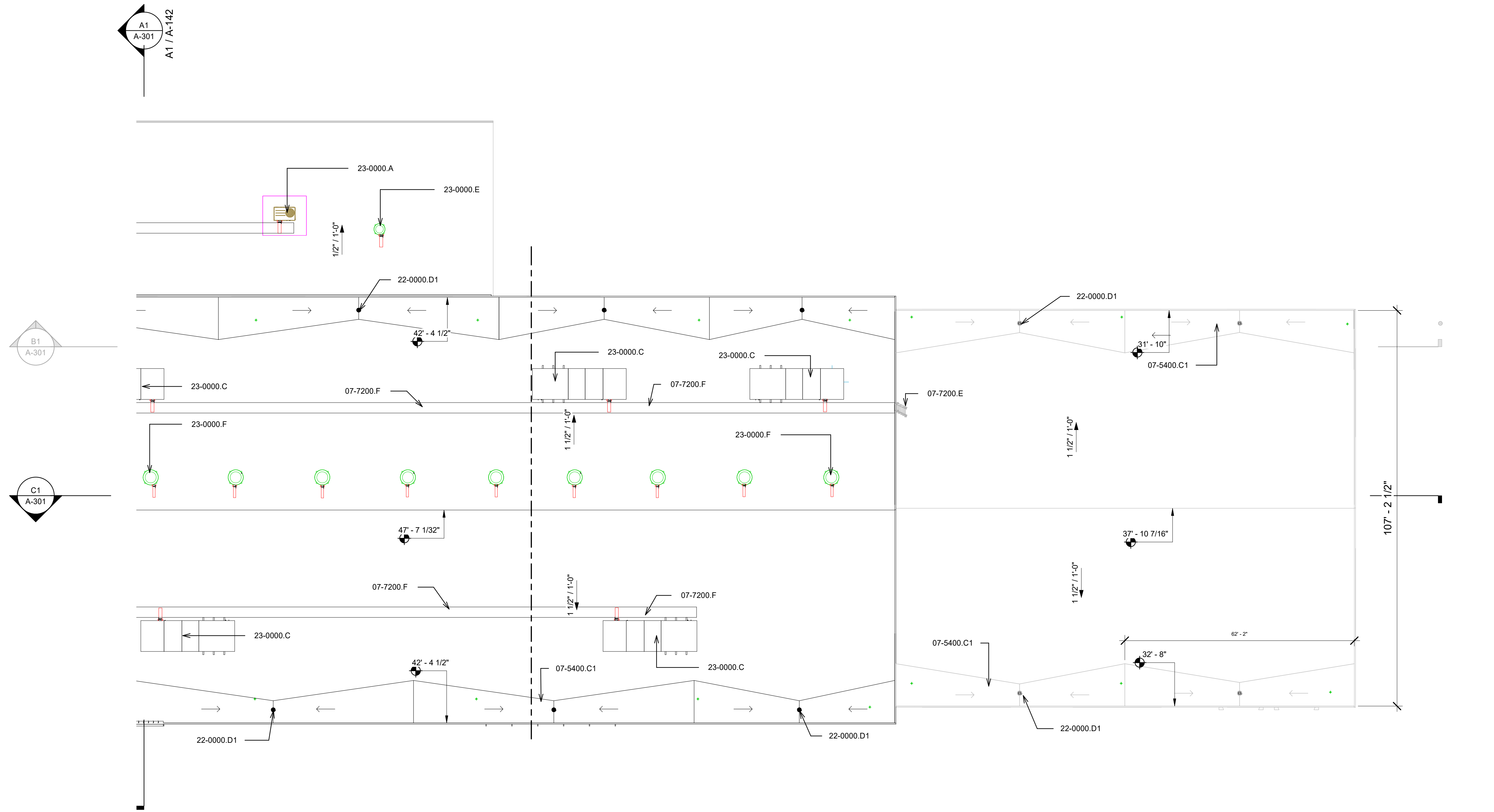
ROOF PLAN
- ENLARGED

SHEET NUMBER

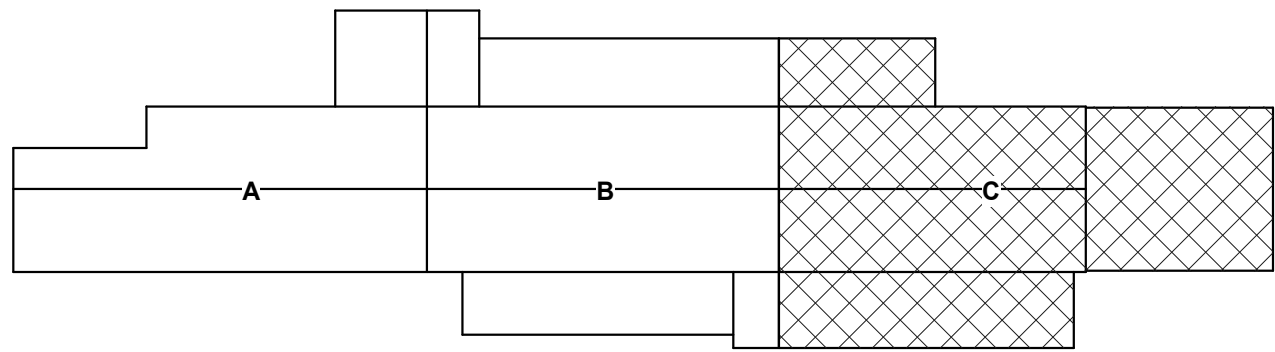
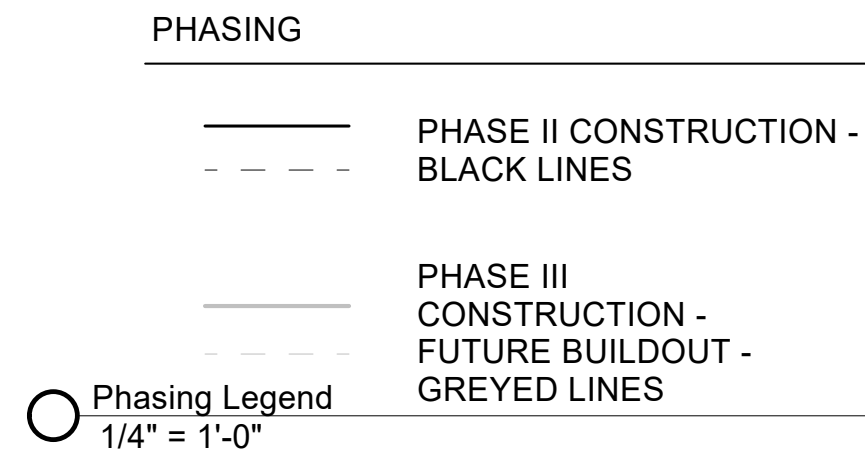
A-142

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



B1 ROOF PLAN
1/16" = 1'-0"



GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

07-5400.C1	CRICKET, 1/8" PER FOOT SLOPE
07-7200.E	ROOF SHIP LADDER
07-7200.F	ROOF WALKWAY MAT, TPO SYSTEM
22-0000.D1	ROOF DRAIN
23-0000.A	MECHANICAL EQUIPMENT
23-0000.C	MECHANICAL ROOF TOP UNIT
23-0000.E	RETURN AIR GRILLE
23-0000.F	VENT THRU ROOF

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
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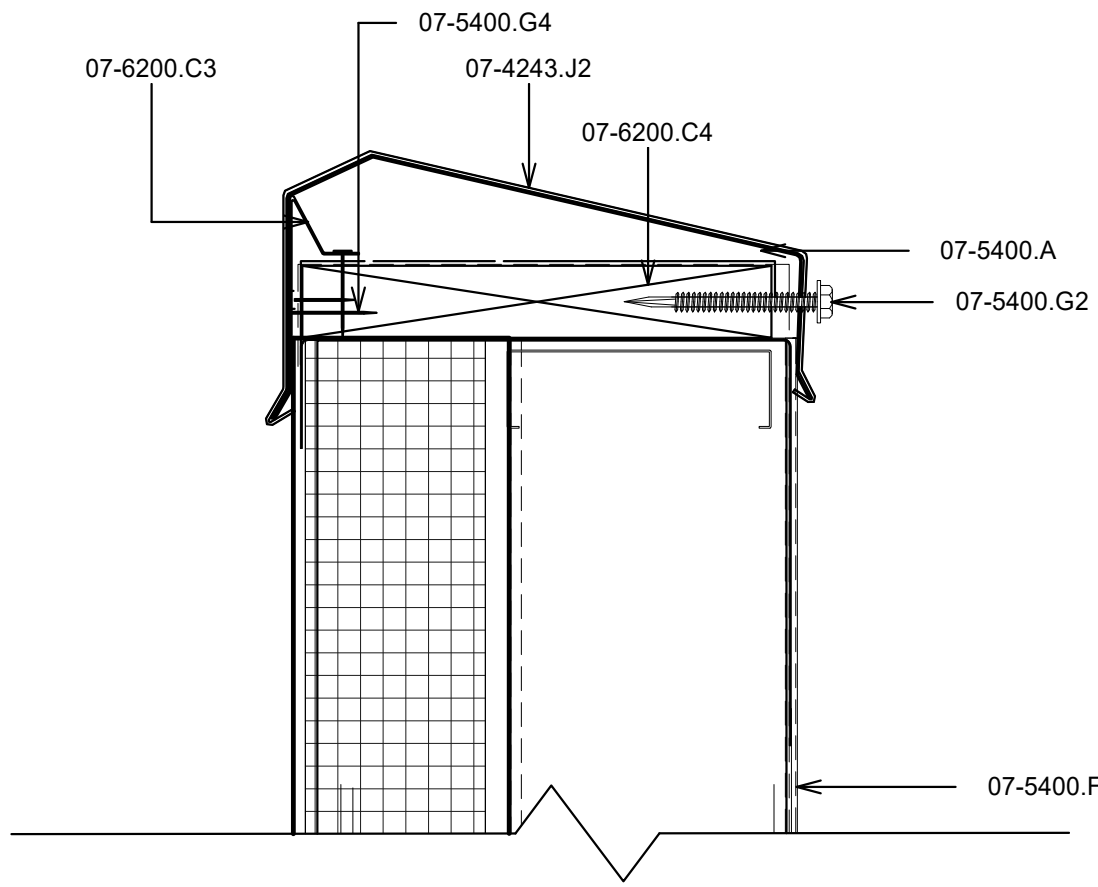
ROOF PLAN - ENLARGED

SHEET NUMBER

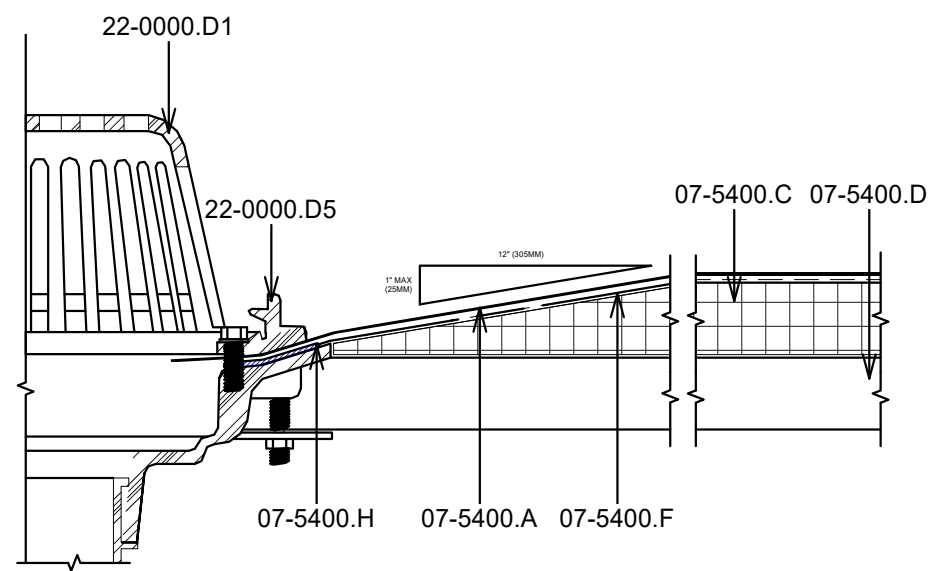
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Sequence of

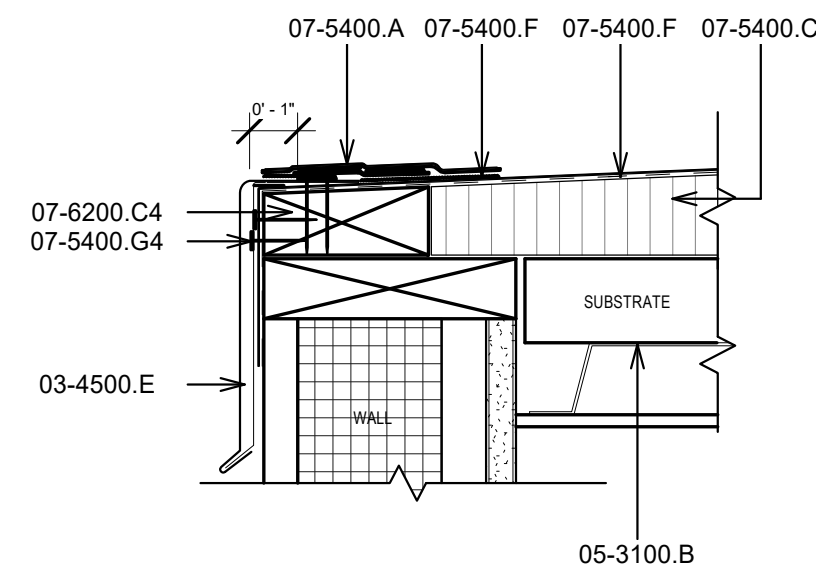
BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



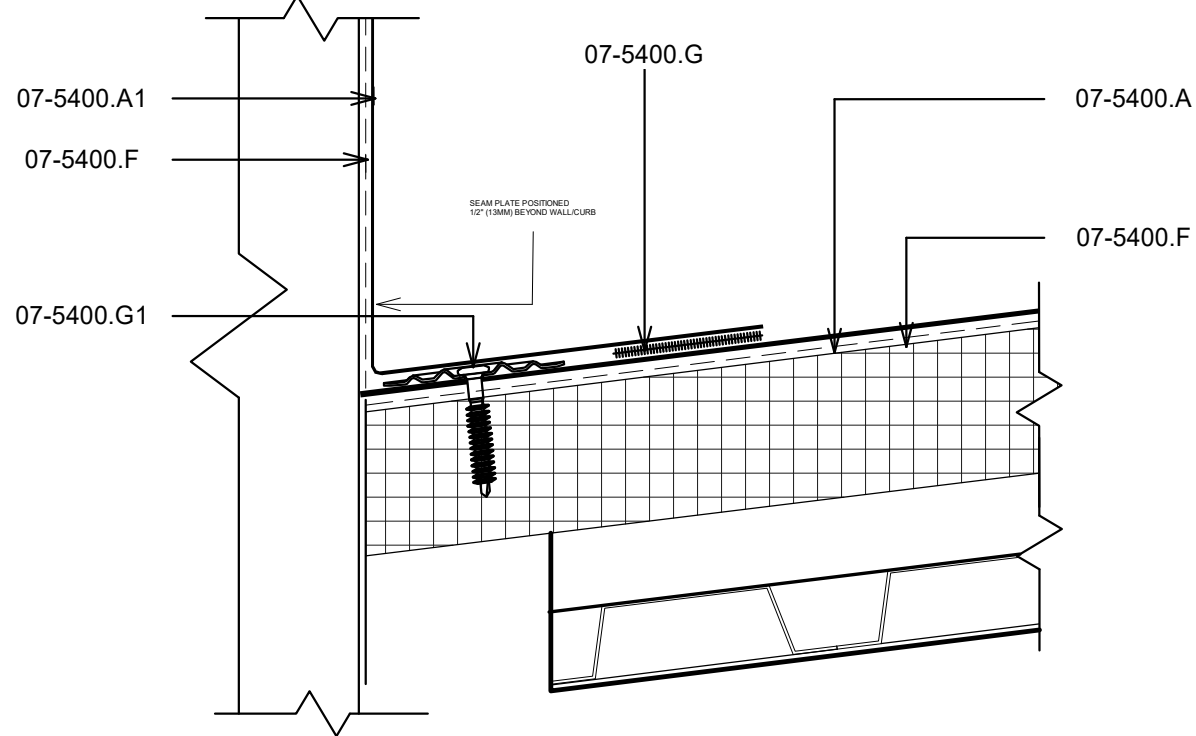
E1 TOP OF PARAPET DETAIL
3" = 1'-0"



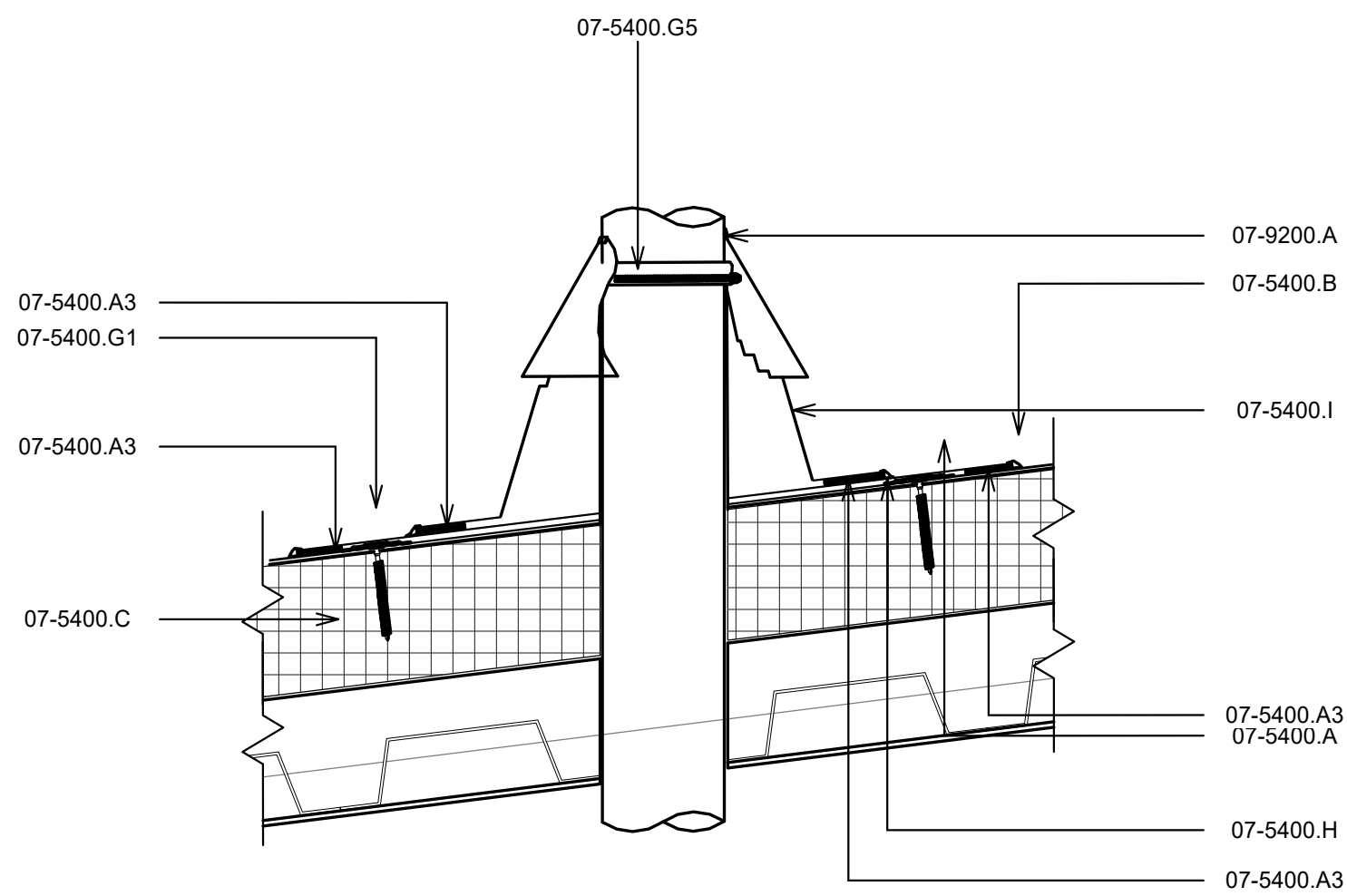
E3 ROOF DRAIN DETAIL
6" = 1'-0"



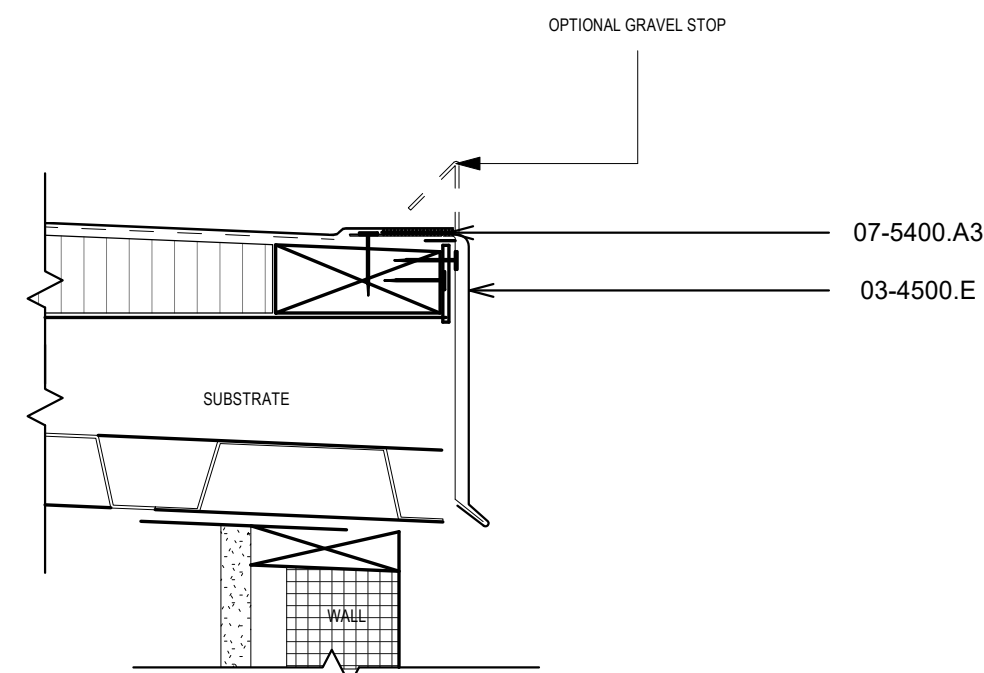
E5 ROOF EDGE DETAIL
3" = 1'-0"



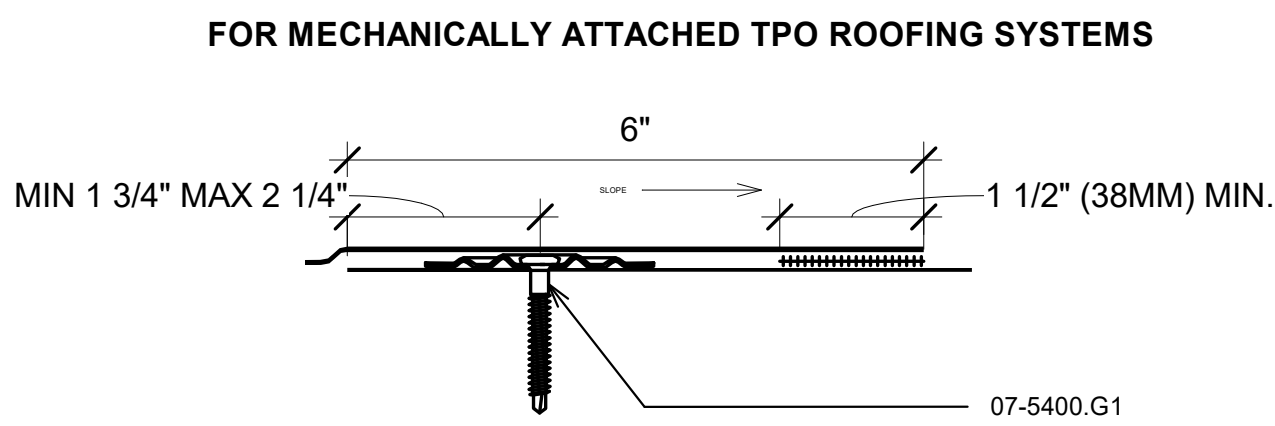
C1 BASE OF PARAPET/CURB DETAIL
3" = 1'-0"



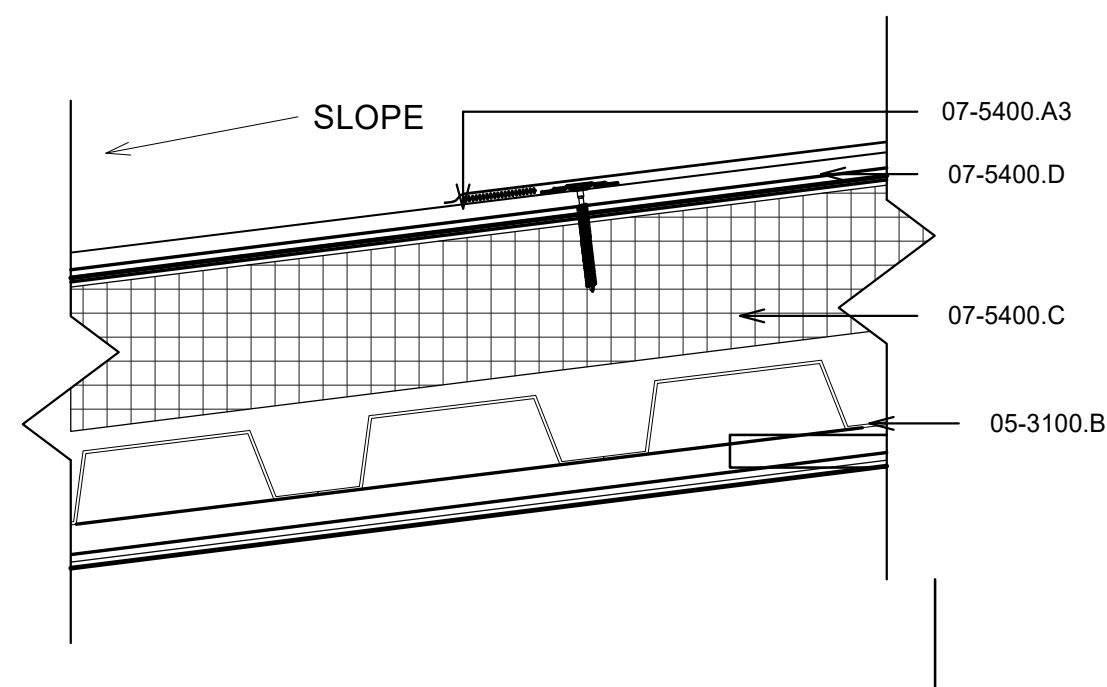
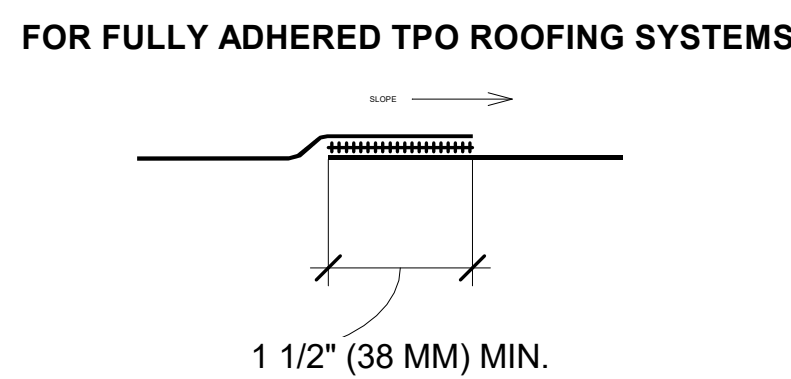
C3 TYPICAL ROOF PENETRATION DETAIL
3" = 1'-0"



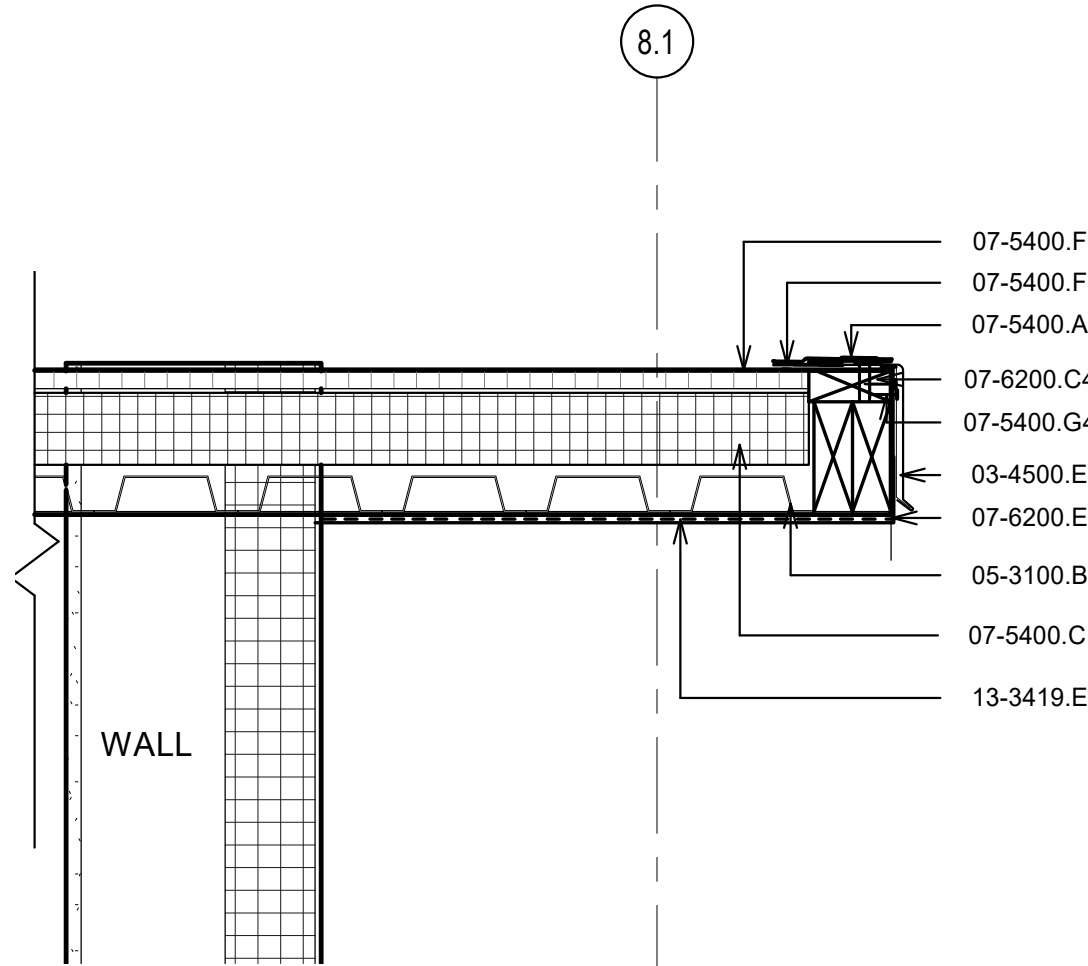
C5 ROOF EDGE GUTTER DETAIL
3" = 1'-0"



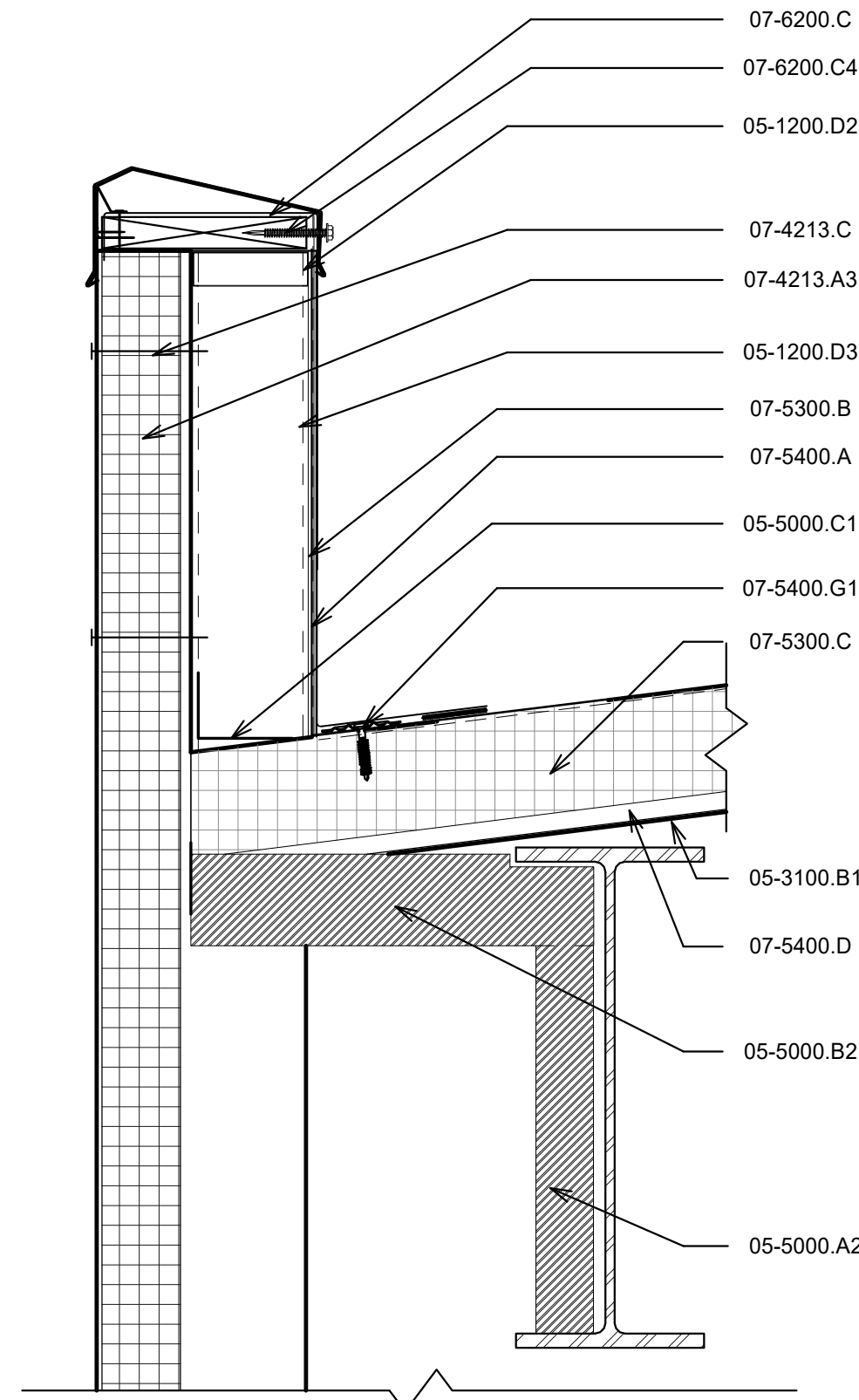
A1 LAP SPLICE DETAIL
6" = 1'-0"



A3 TPO SECTION DETAIL
3" = 1'-0"



A5 ROOF EDGE/OVERHANG DETAIL
1 1/2" = 1'-0"



A6 PARAPET DETAIL
1 1/2" = 1'-0"

GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

- 03-4500.E DRIP EDGE
- 05-1200.D2 HHS 4 X 2X 1/4 CONTINUOUS
- 05-1200.D3 HHS 4 X 4X 1/4 MATCH SPACING OF KING SPAN PANEL JOINT
- 05-3100.B STEEL ROOF DECKING
- 05-3100.B1 1-1/2" STEEL ROOF DECKING
- 05-5000.A2 1/4" STIFF PLATE
- 05-5000.B2 1/6 X 4 X 3/8 LLV
- 05-5000.C1 BENT PLATE OR CONTINUOUS EDGE ANGLE-SEE STRUCTURAL
- 07-4213.A3 KINGSPAN INSULATED METAL VERTICAL WALL PANELS
- 07-4213.C CONNECTION TO POST PER KING SPAN
- 07-4243.J2 METAL PANEL CAP
- 07-5300.B GYPSUM COVER BOARD, 1/2"
- 07-5300.C POLYISO INSULATION BOARD, 5"
- 07-5400.A TPO MEMBRANE ROOFING
- 07-5400.A1 TPO MEMBRANE FLASHING
- 07-5400.A3 TPO MEMBRAN WELDED SPLICE
- 07-5400.B GYPSUM COVER BOARD
- 07-5400.C POLYISO INSULATION BOARD, 5"
- 07-5400.D GYPSUM SUBSTRATE BOARD
- 07-5400.F TPO BONDING ADHESIVE
- 07-5400.G TPO LAP SLICE
- 07-5400.G1 TPO FASTENER AND SEAM PLATE 12" O.C.
- 07-5400.G2 TPO REAR FACE FASTENER 12" O.C.
- 07-5400.G4 1-3/4" SD STAINLESS STEEL RING SHANK NAILS 4" O.C.
- 07-5400.G5 STAINLESS STEEL CLAMPING RING
- 07-5400.H PRE-MOLDED TPO PIPE FLASHING
- 07-5400.I METAL COPING, PREFABRICATED
- 07-6200.C COPING ANCHOR CLIP
- 07-6200.C4 WOOD NAILER
- 07-6200.E FASCIA TRIM
- 07-9200.A SEALANT
- 13-3419.E METAL SOFFIT
- 22-0000.D1 ROOF DRAIN
- 22-0000.D5 COMPRESSION RING

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

MARCH 25, 2022

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SHEET TITLE

ROOF DETAILS

SHEET NUMBER

A-144

Sequence of



07-4213.A1	METAL WALL PANELS WITHOUT INSULATION
07-4213.A3	KINGSPAN INSULATED METAL VERTICAL WALL PANELS
07-4213.A6	INTEGRATED TRANSLUCENT PANEL SYSTEM
07-7200.E	ROOF SHIP LADDER
08-4113.A	ALUMINUM STOREFRONT SYSTEM
10-8213.A	EQUIPMENT SCREEN-ROOF MOUNTED

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

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SHEET TITLE

EXTERIOR ELEVATIONS

SHEET NUMBER

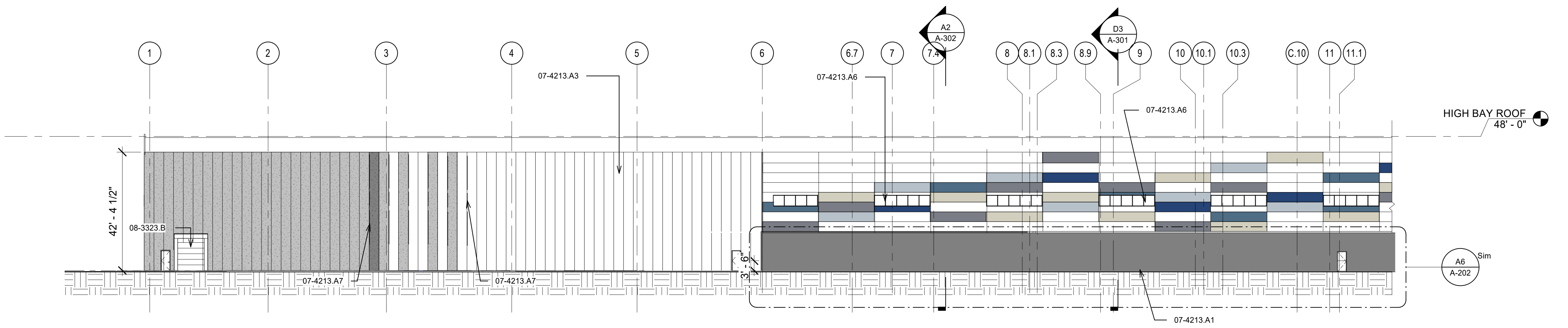
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Sequence of

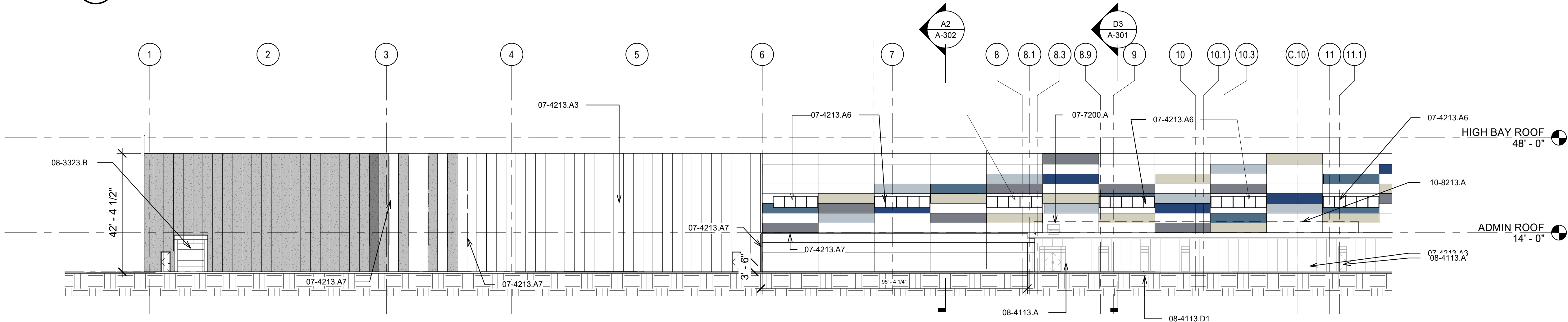
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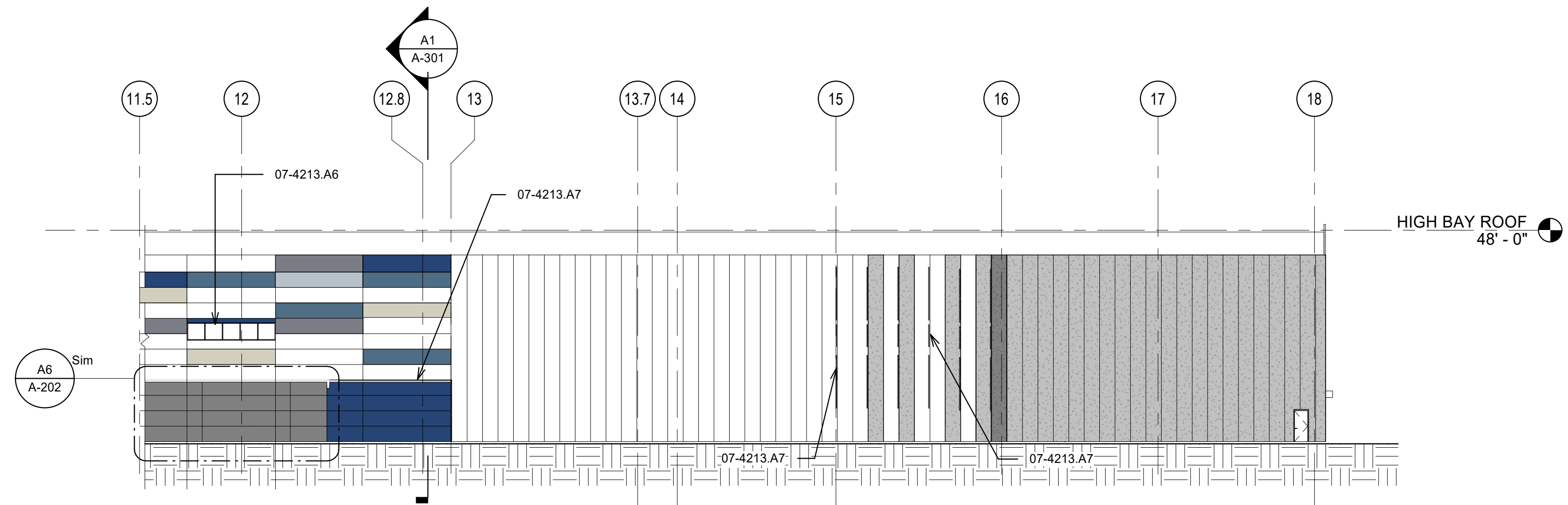
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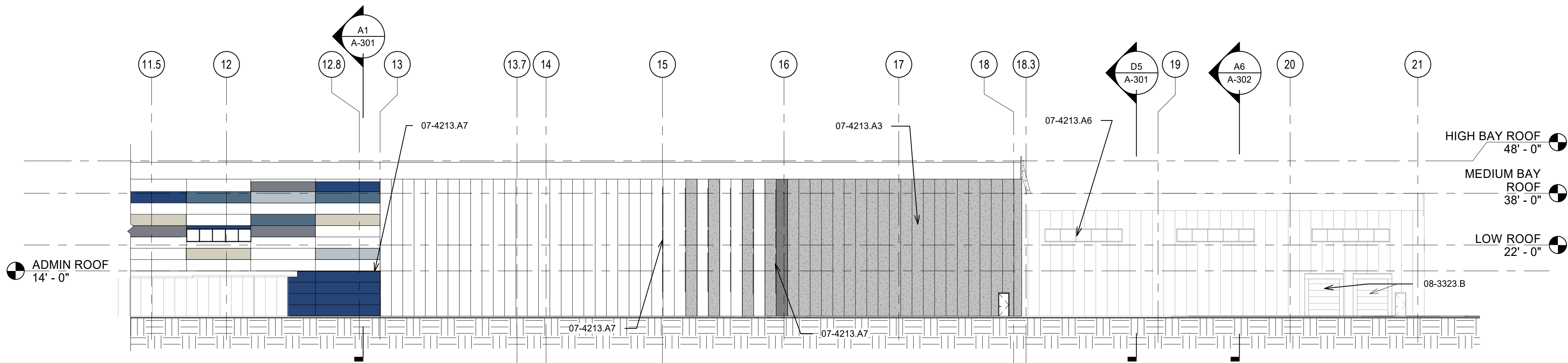
D1 SOUTH ELEVATION AREA 1 PHASE II
3/64" = 1'-0"



C1 SOUTH ELEVATION AREA 1 PHASE III
3/64" = 1'-0"



B1 SOUTH ELEVATION AREA 2 PHASE II
3/64" = 1'-0"



A1 SOUTH ELEVATION AREA 2 PHASE III
3/64" = 1'-0"

- PHASING**
- PHASE II CONSTRUCTION - BLACK LINES
 - - - PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES

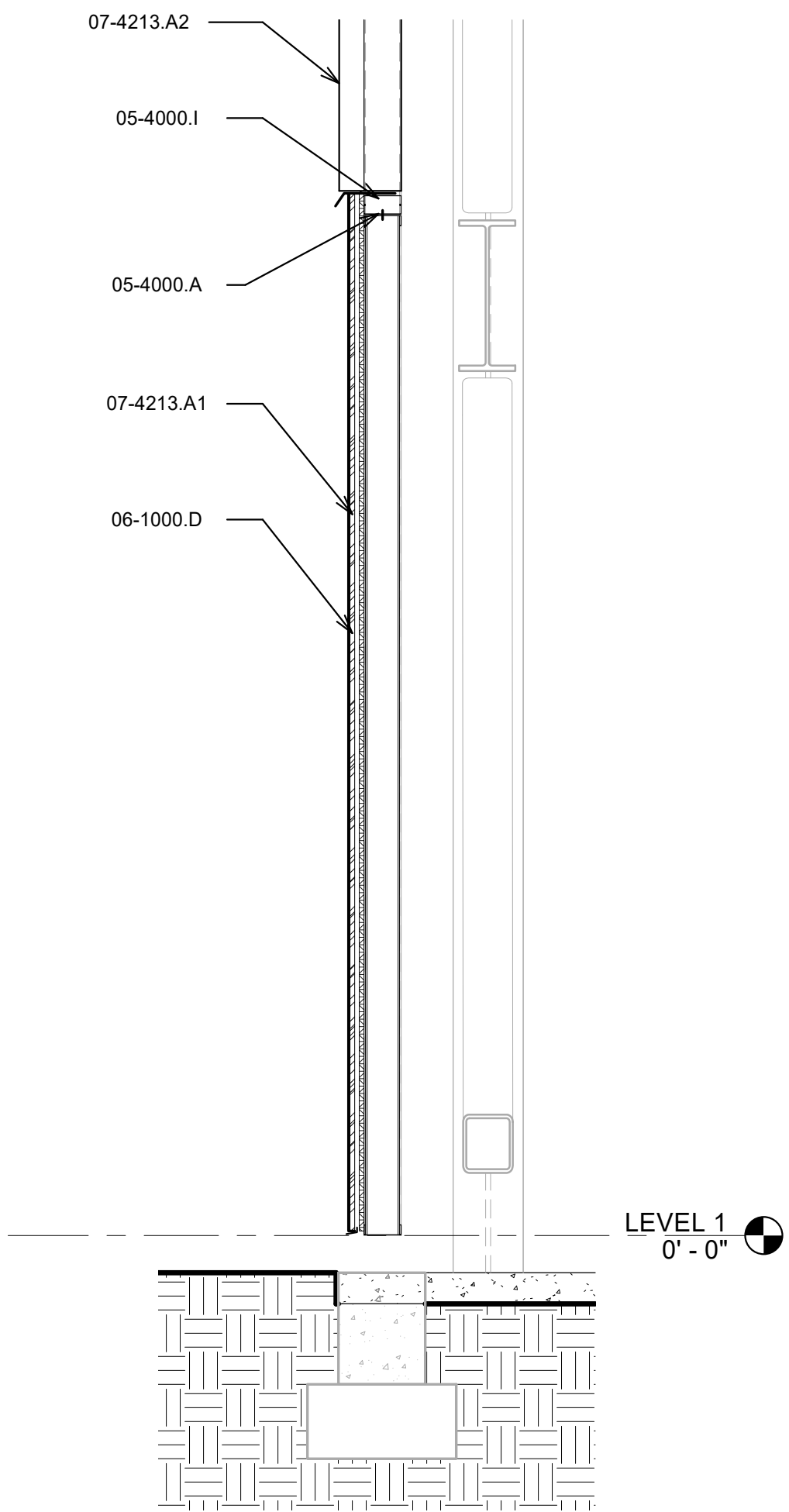
GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. EQUIPMENT SHOWN FOR REFERENCE ONLY
3. FURNITURE SHOWN FOR REFERENCE ONLY

SHEET KEYNOTES

REFERENCE KEYNOTES

- | | |
|------------|---|
| 05-4000.A | STRUCTURAL STUD FRAMING |
| 05-4000.I | LINTEL |
| 06-1000.D | WOOD SHEATHING |
| 07-4213.A1 | METAL WALL PANELS WITHOUT INSULATION |
| 07-4213.A2 | KINGSPAN INSULATED METAL HORIZONTAL WALL PANELS |
| 07-4213.A3 | KINGSPAN INSULATED METAL VERTICAL WALL PANELS |
| 07-4213.A6 | INTEGRATED TRANSLUCENT PANEL SYSTEM |
| 07-4213.A7 | KINGSPAN ACCENT FIN - RECTANGLE |
| 07-7200.A | ROOF HATCH |
| 08-3323.B | COILING DOOR, INSULATED |
| 08-4113.A | ALUMINUM STOREFRONT SYSTEM |
| 08-4113.D1 | ALUMINUM STOREFRONT WINDOW |
| 10-8213.A | EQUIPMENT SCREEN-ROOF MOUNTED |



A6 TEMPORARY EXTERIOR WALL
1/2" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

MARCH 25, 2022

OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC



8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

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SHEET TITLE

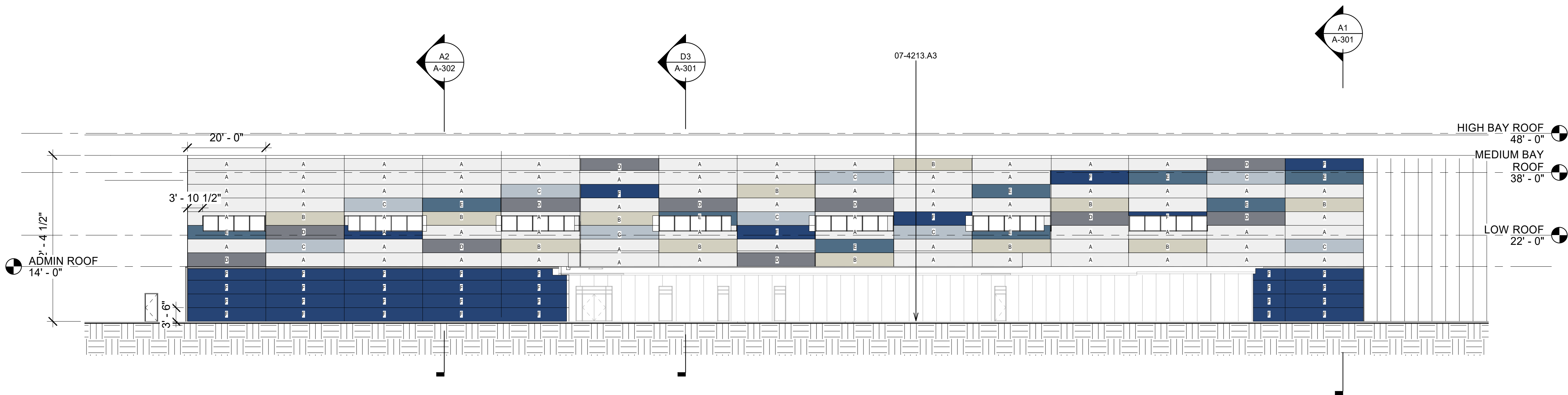
EXTERIOR ELEVATIONS

SHEET NUMBER

A-202

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory/ARCH_1.rvt



GENERAL NOTES

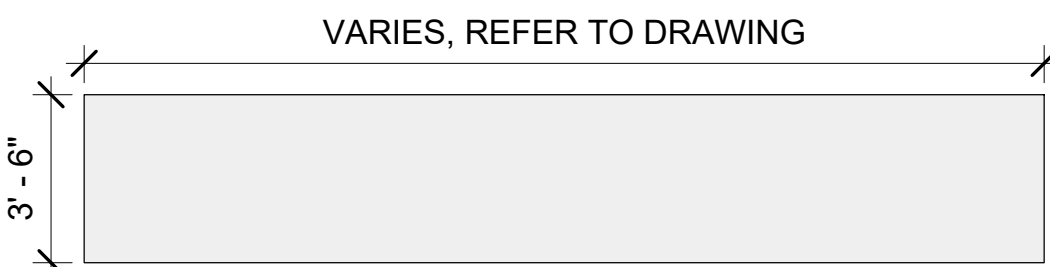
- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

07-4213.A3 KINGSpan INSULATED METAL VERTICAL WALL PANELS

D1 EXTERIOR ELEVATION FEATURE WALL

1/16" = 1'-0"



FEATURE WALL KEY		
Mark	Color	Kingspan System
A	ASCOT WHITE	AZTECO
B	DRIFTWOOD	AZTECO
C	DOVE GRAY	AZTECO
D	ZINC GRAY	AZTECO
E	SLATE BLUE	AZTECO
F	REGAL BLUE	MICRO-RIB

PHASING

PHASE II CONSTRUCTION - BLACK LINES

PHASE III CONSTRUCTION - FUTURE BUILDOUT - GREYED LINES

Phasing Legend
1/4" = 1'-0"

B1 METAL PANEL DIM.

1/4" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

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SHEET TITLE

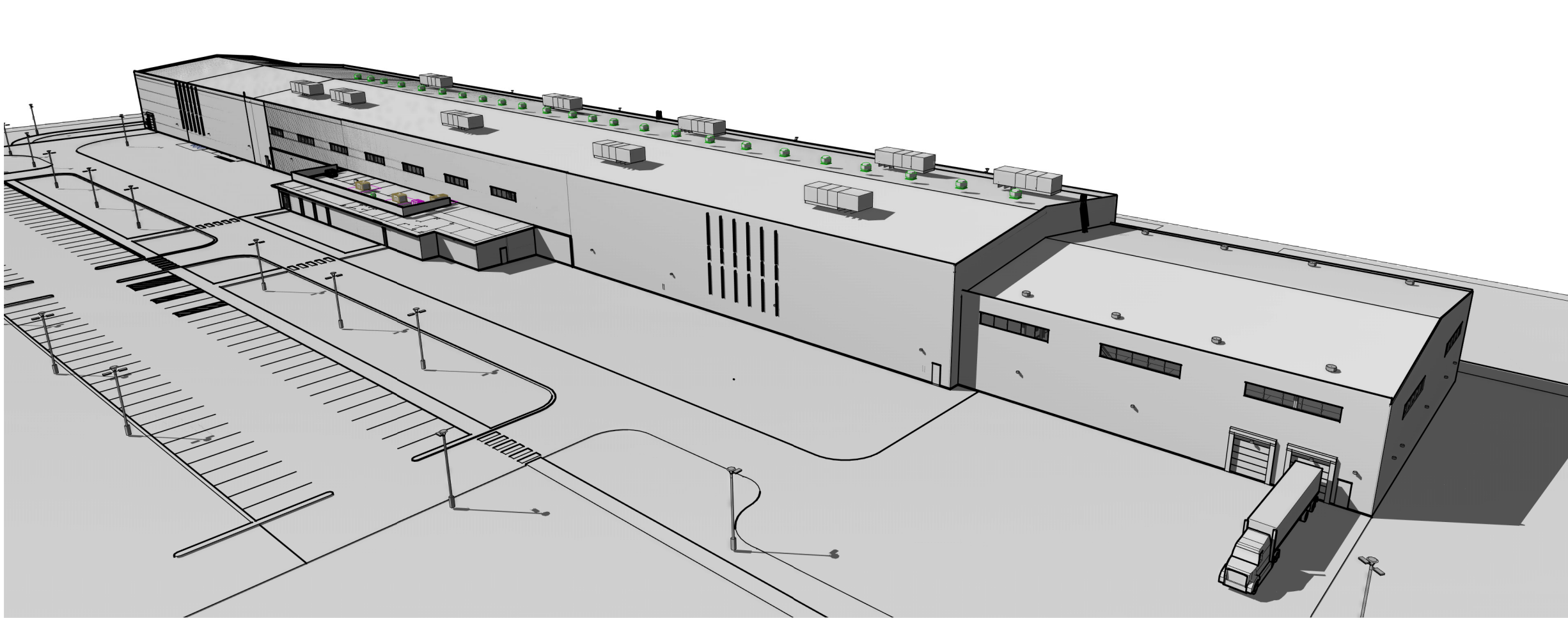
EXTERIOR ELEVATIONS

SHEET NUMBER

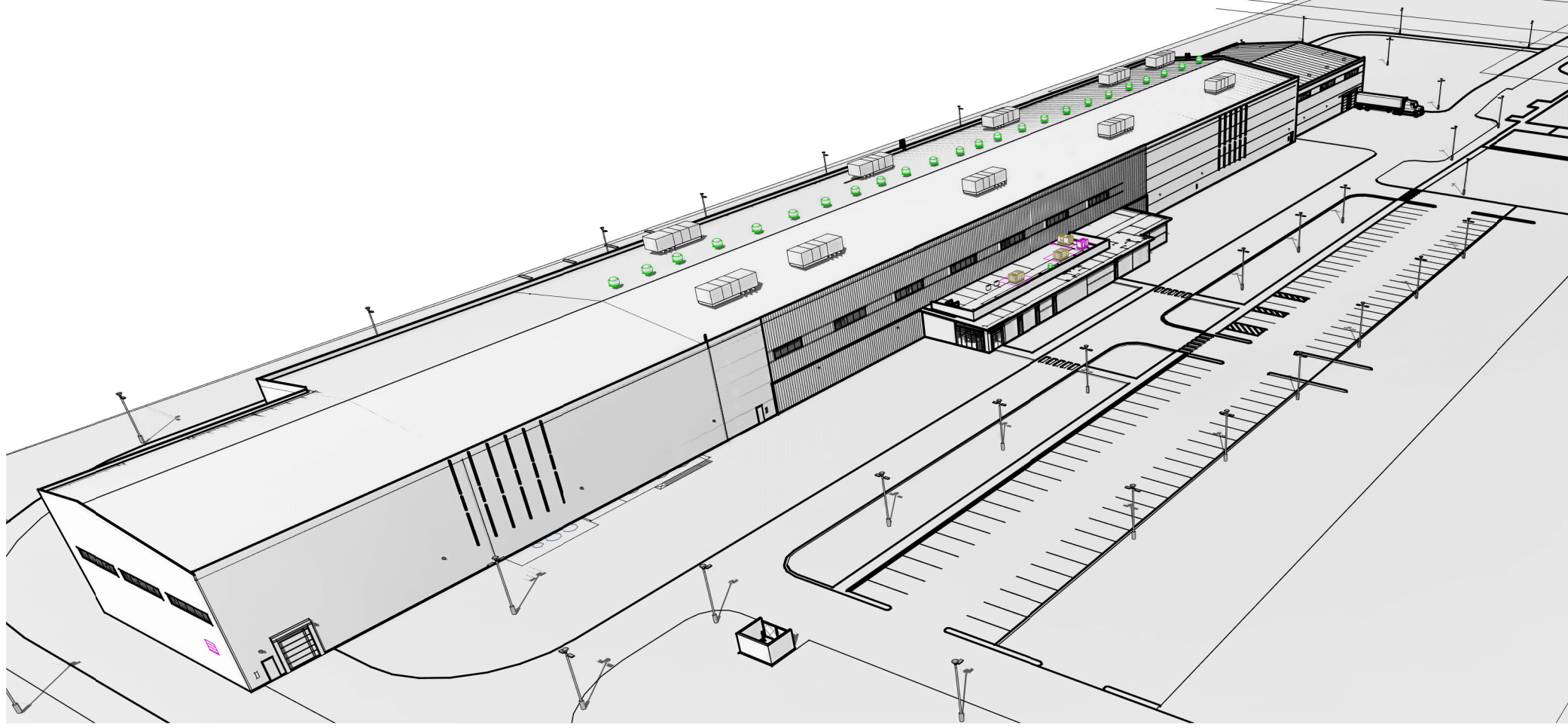
A-203

Sequence of

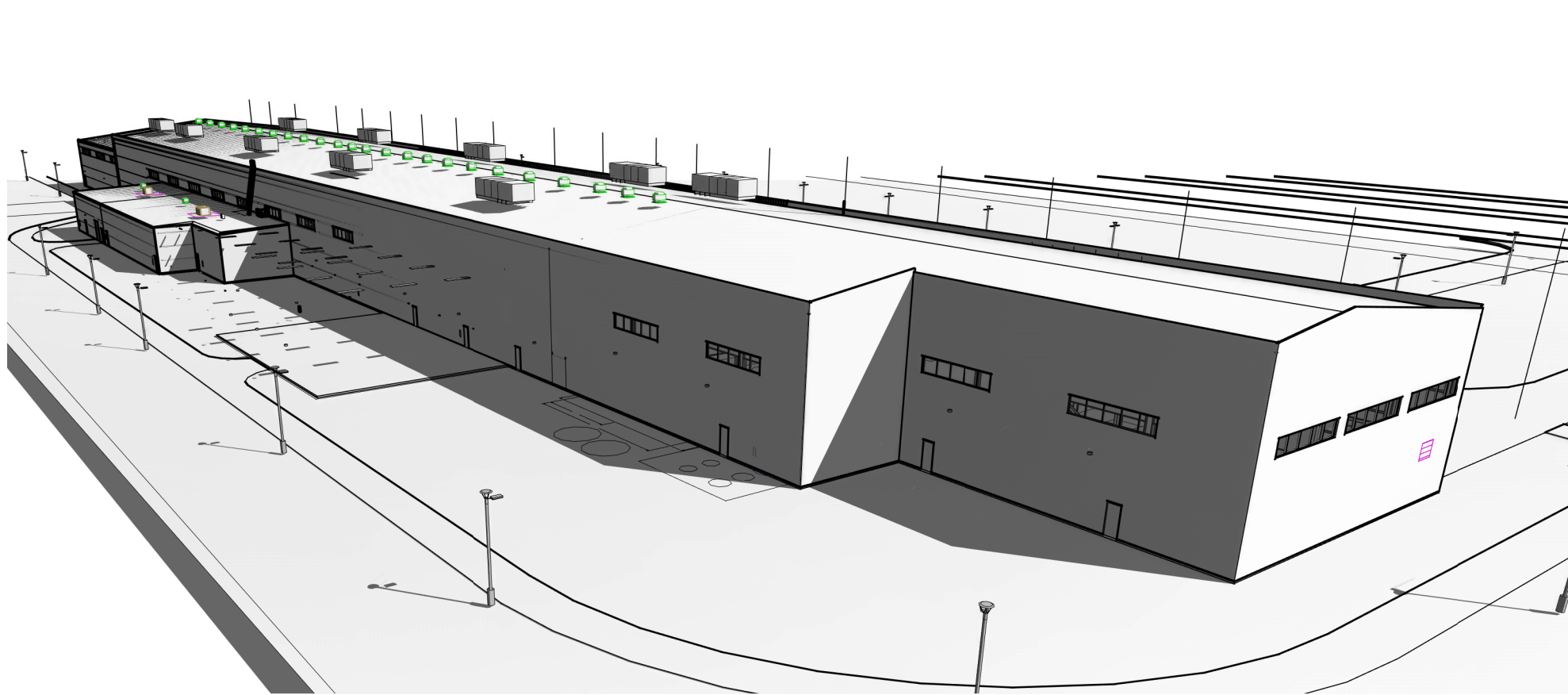
BIM 360://Church Rock Phase II Factory/CR Factory ARCH_1.rvt



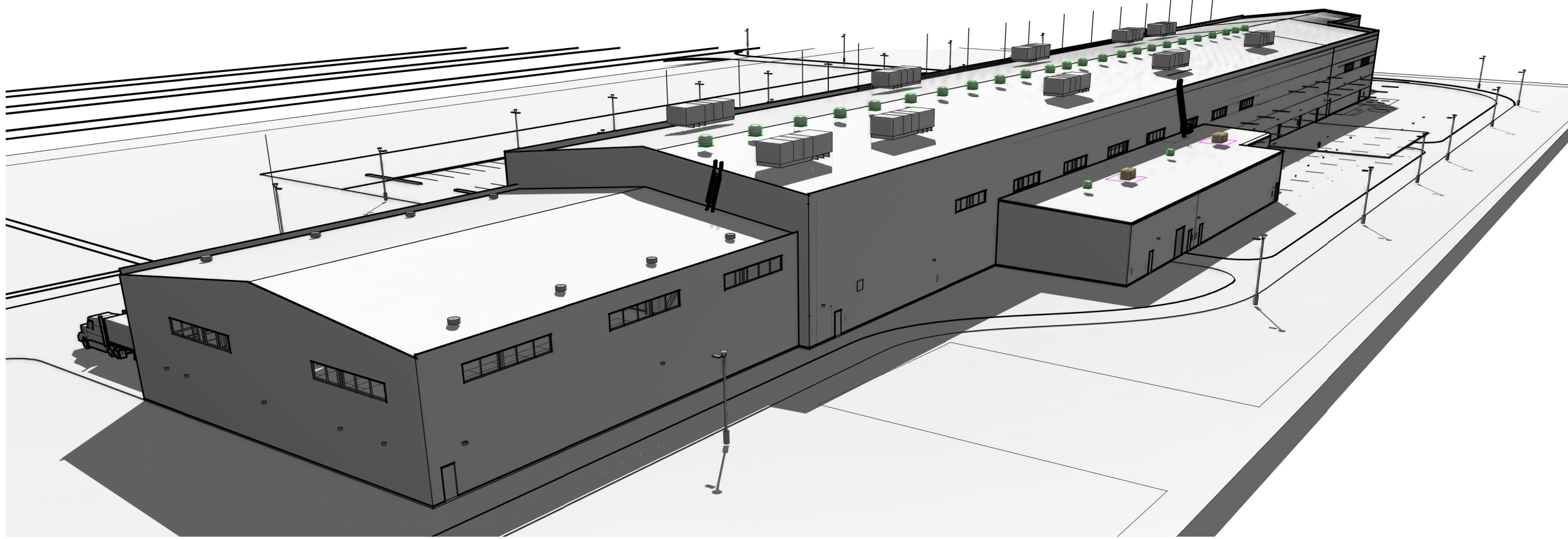
1 PERSPECTIVE VIEW - BIRDSEYE LOOKING NORTHWEST



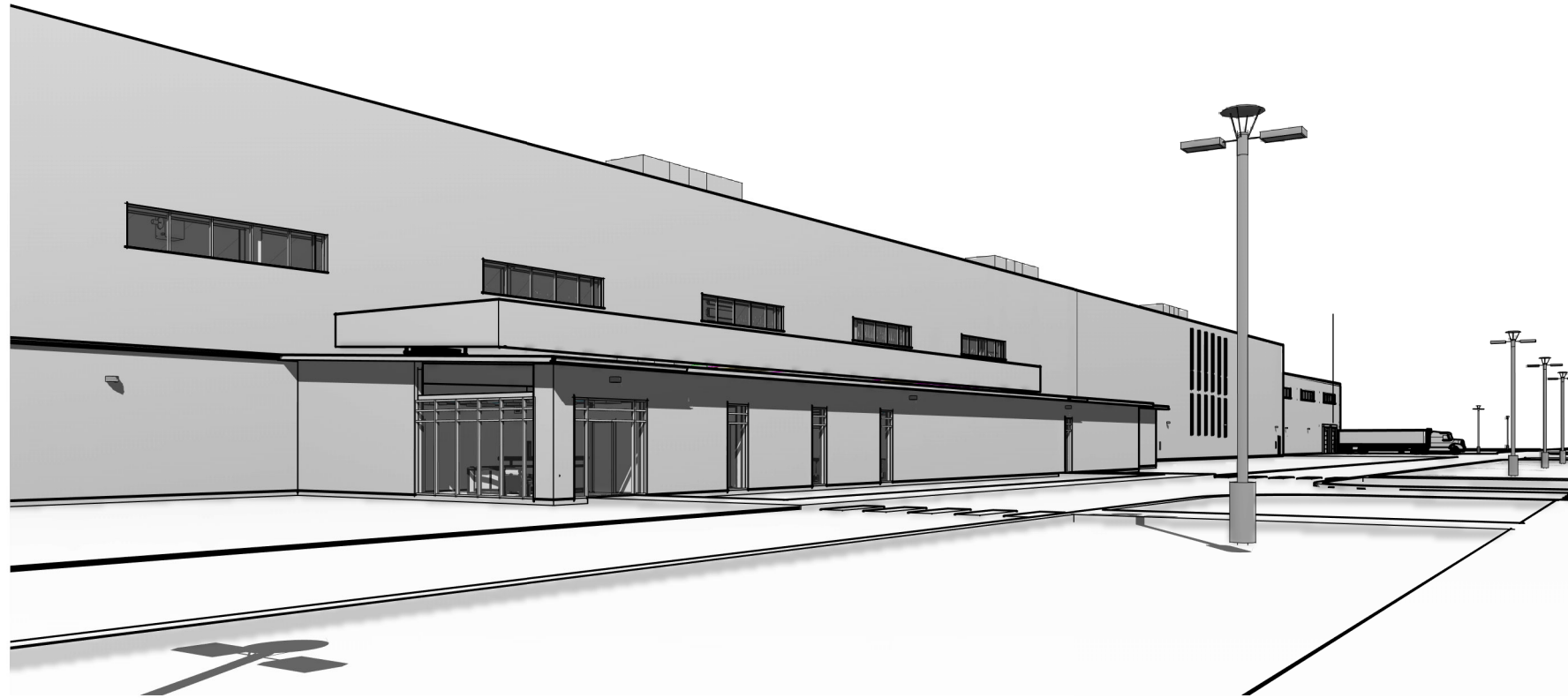
2 PERSPECTIVE VIEW - BIRDSEYE LOOKING NORTHEAST



3 PERSPECTIVE VIEW - BIRDSEYE LOOKING SOUTHEAST



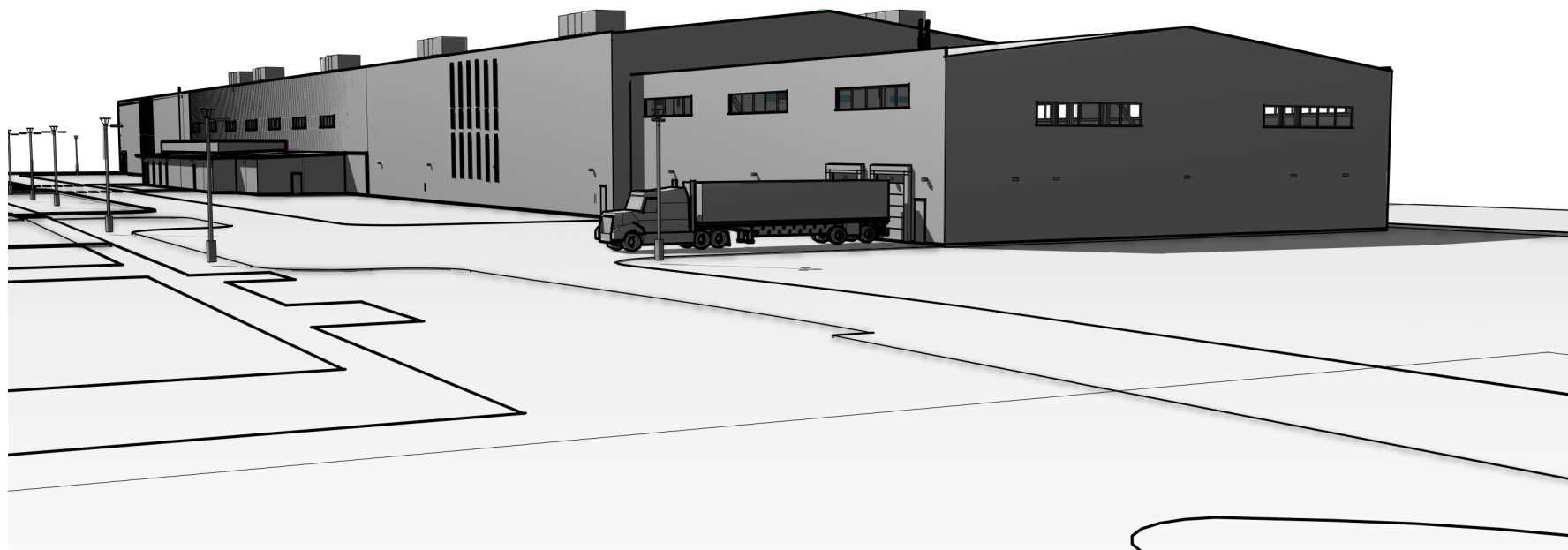
4 PERSPECTIVE VIEW - BIRDSEYE LOOKING SOUTHWEST



5 PERSPECTIVE VIEW - ADMINISTRATION ENTRY



6 PERSPECTIVE VIEW - NORTH EXTERIOR



7 PERSPECTIVE VIEW - WAREHOUSE

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
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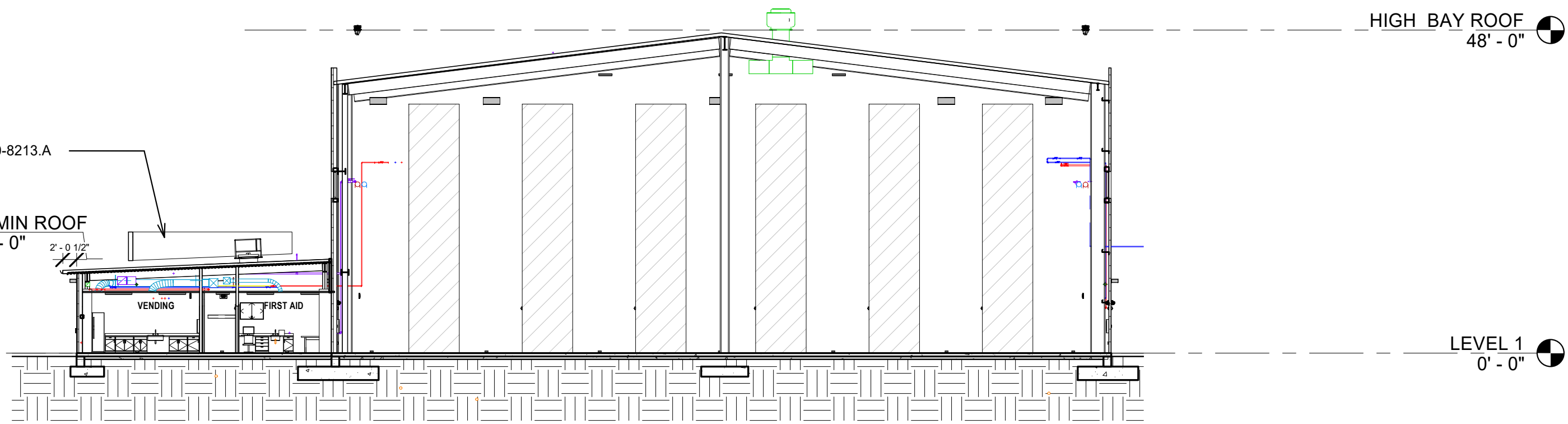
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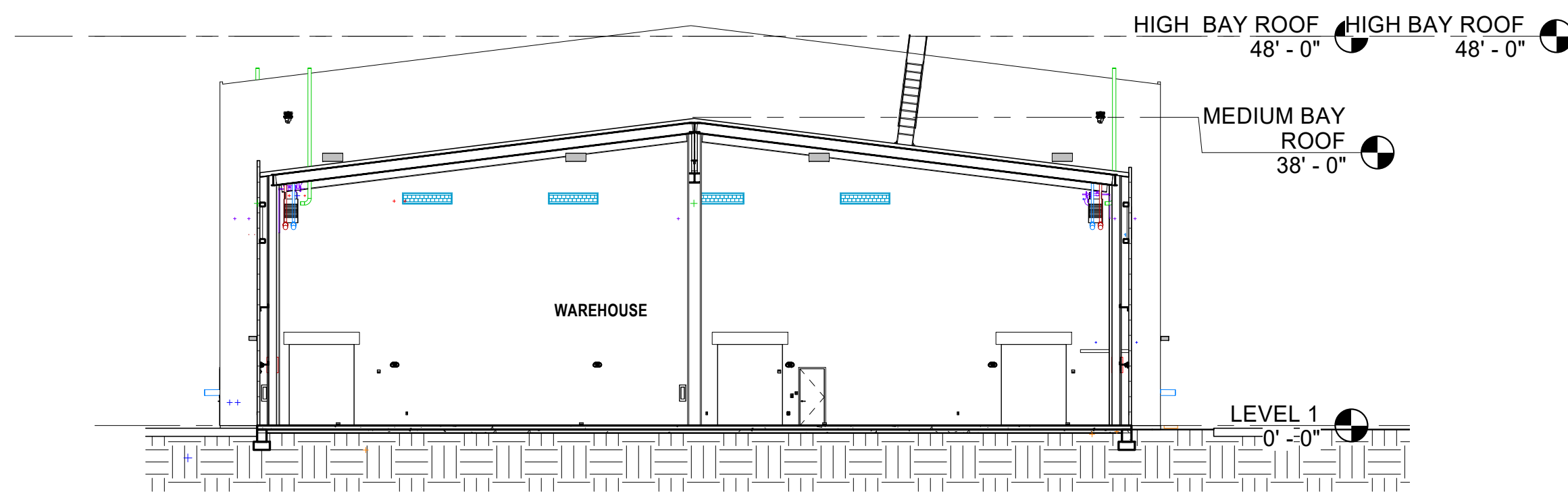
SHEET TITLE
PERSPECTIVE
VIEWS - PHASE III
BUILDOUT

SHEET NUMBER
A-205
Sequence of

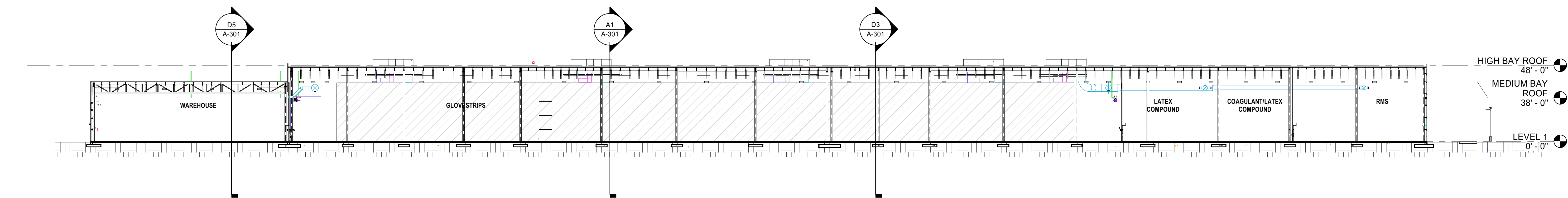
BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



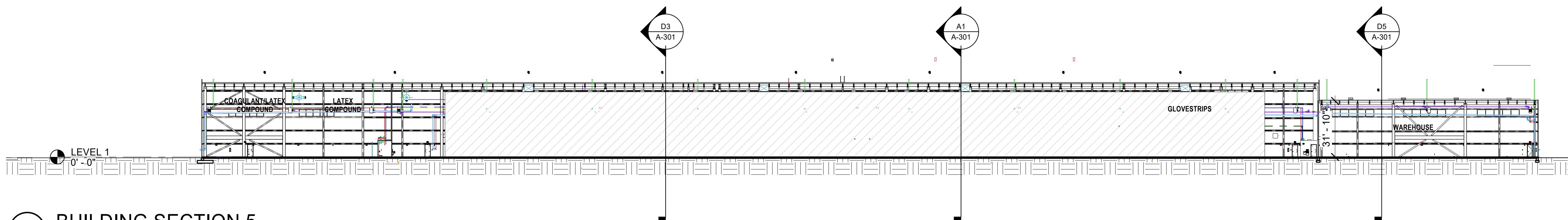
D3 BUILDING SECTION 2
1/16" = 1'-0"



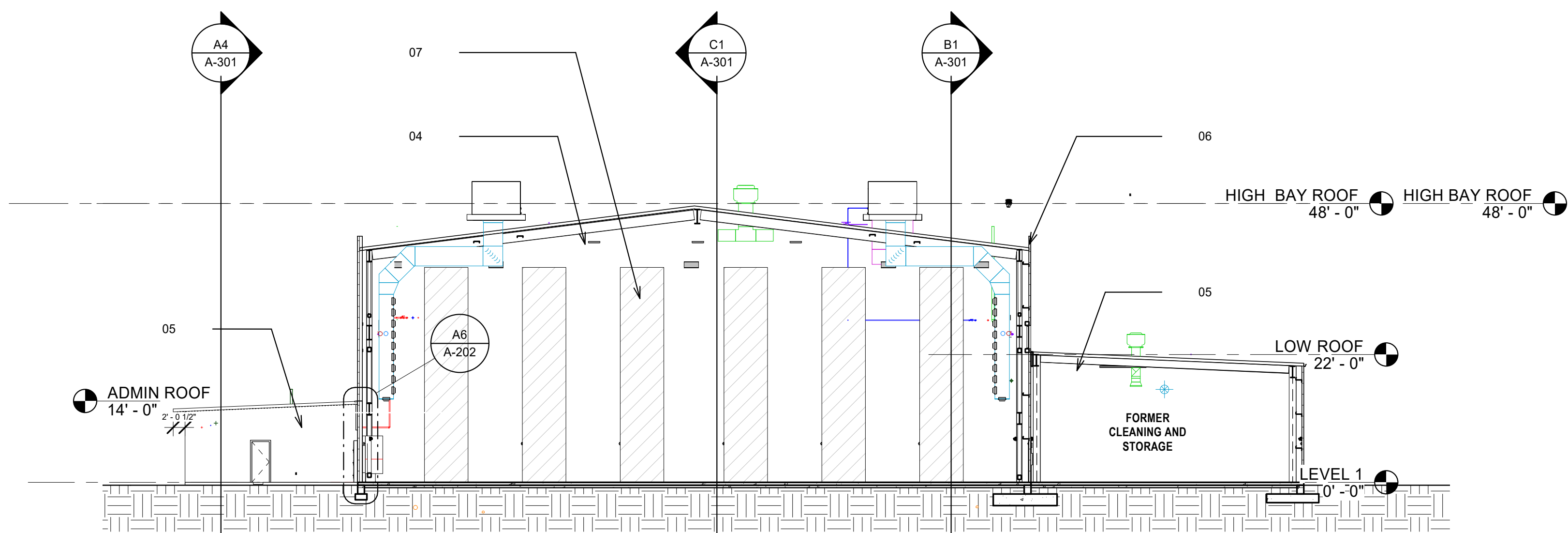
D5 BUILDING SECTION 3
1/16" = 1'-0"



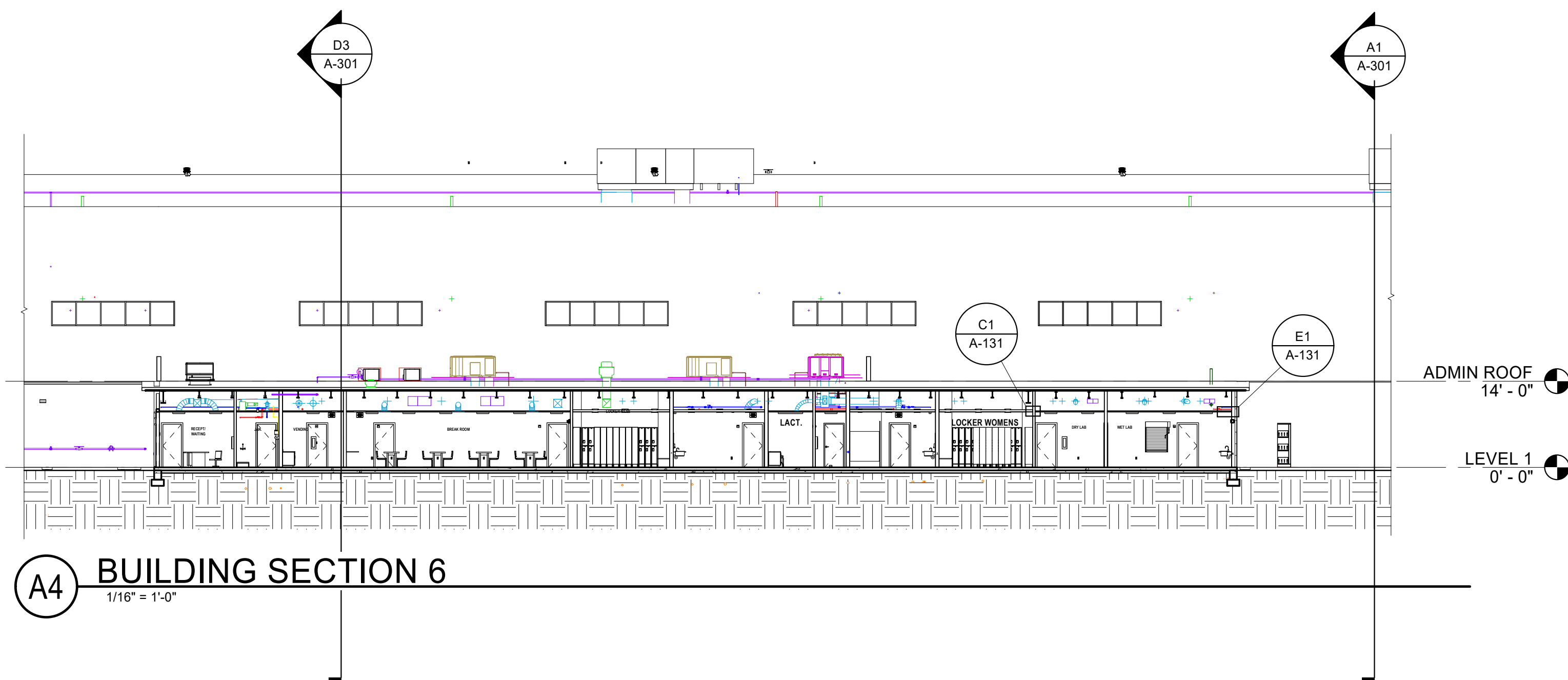
C1 BUILDING SECTION 4
1/32" = 1'-0"



B1 BUILDING SECTION 5
1/32" = 1'-0"



A1 BUILDING SECTION 1
1/16" = 1'-0"



A4 BUILDING SECTION 6
1/16" = 1'-0"

GENERAL NOTES

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2. EQUIPMENT SHOWN FOR REFERENCE ONLY
3. FURNITURE SHOWN FOR REFERENCE ONLY

SHEET KEYNOTES

- | | |
|----|---------------------|
| 04 | PHASE II |
| 05 | PHASE III |
| 06 | PARAPET |
| 07 | EQUIPMENT BY OTHERS |

REFERENCE KEYNOTES

- | | |
|-----------|-------------------------------|
| 10-8213.A | EQUIPMENT SCREEN-ROOF MOUNTED |
|-----------|-------------------------------|

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

MARCH 25, 2022

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SHEET TITLE

BUILDING
SECTIONS

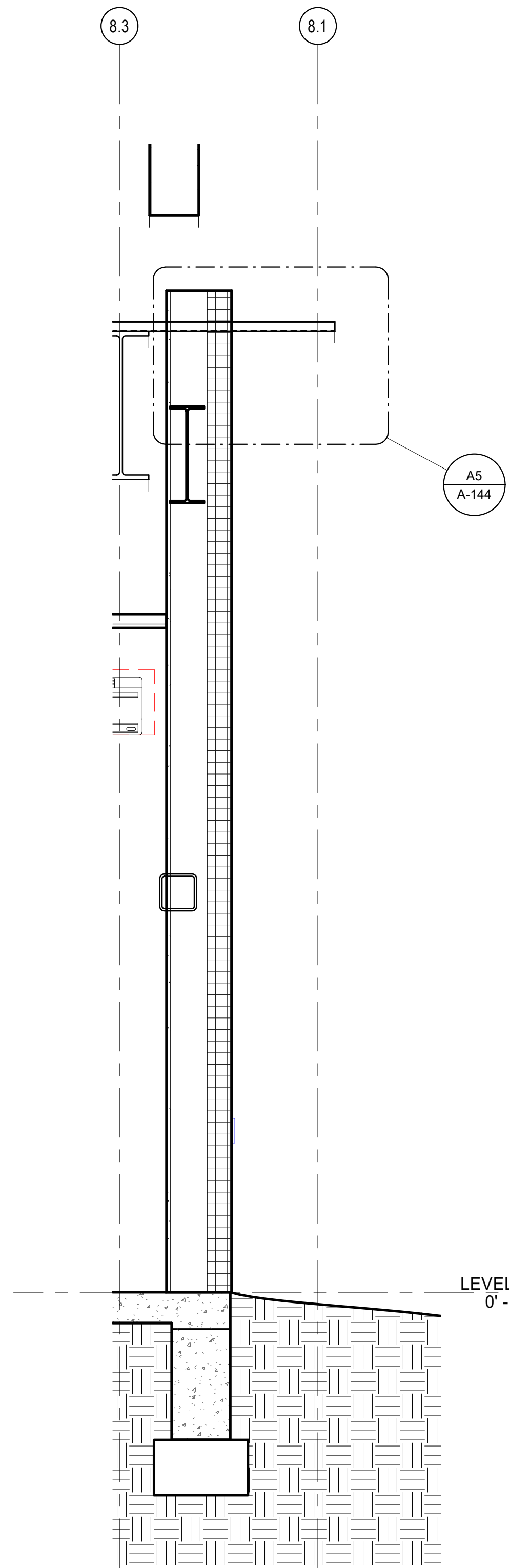
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A-301

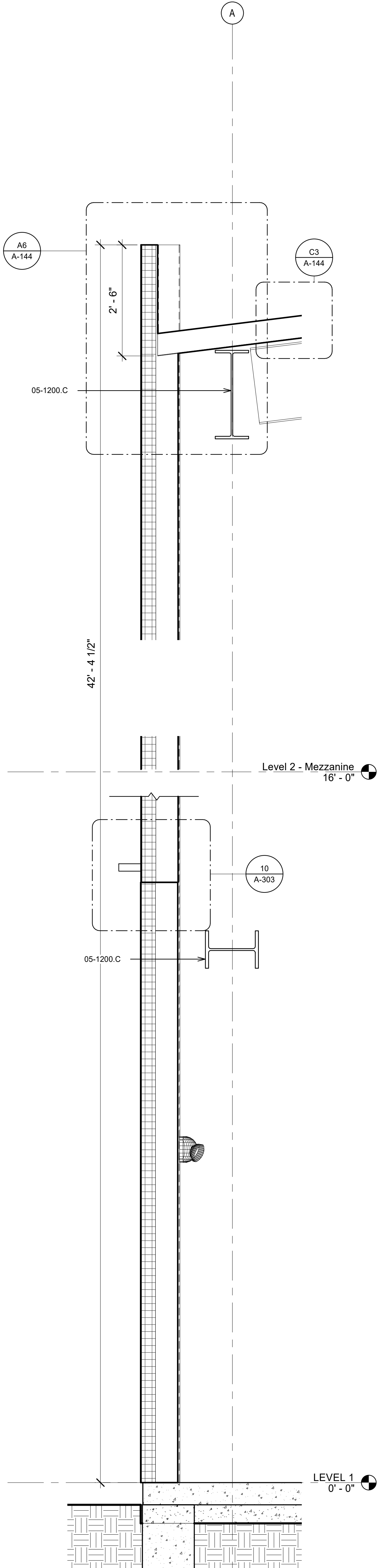
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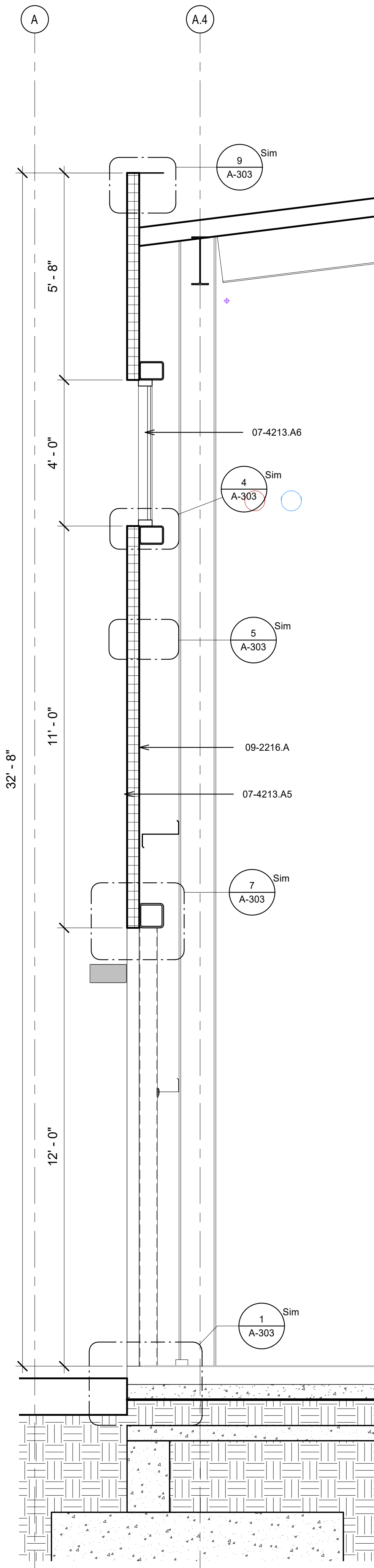
BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



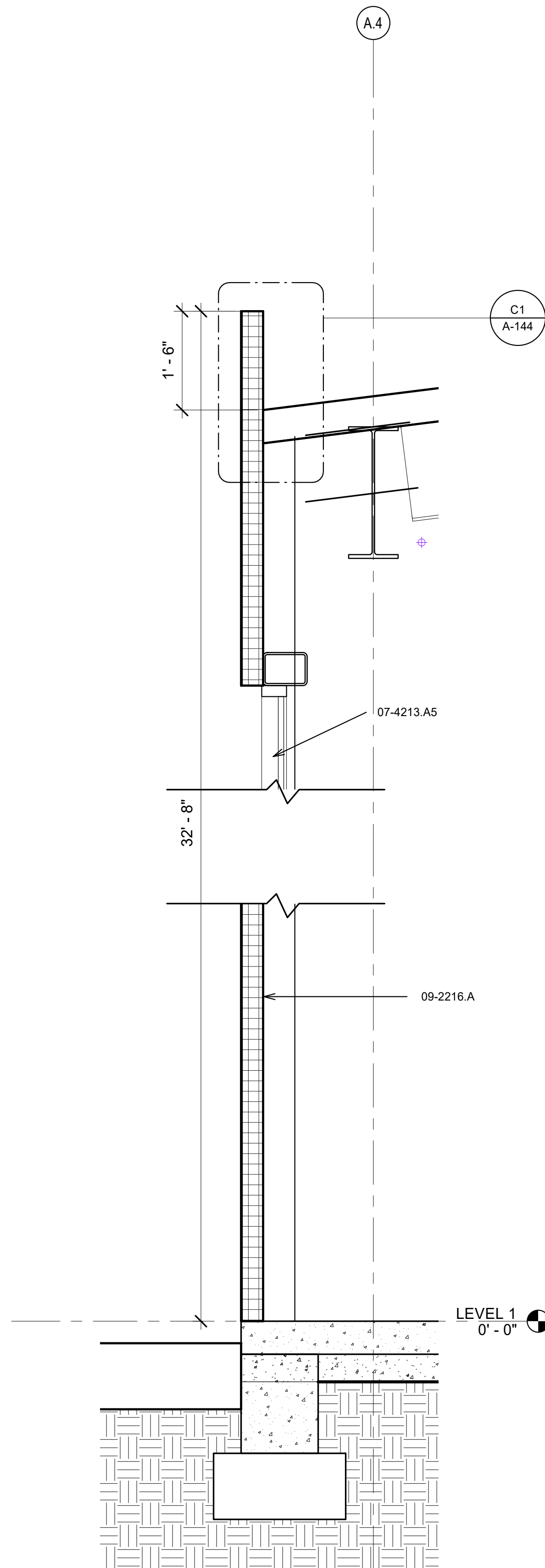
A1 ADMIN. EXTERIOR WALL SECTION
3/4" = 1'-0"



A2 WALL SECTION - PRODUCTION AREA
3/4" = 1'-0"



A4 WALL SECTION - WAREHOUSE
1/2" = 1'-0"



A6 WALL SECTION - WAREHOUSE
3/4" = 1'-0"

GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

05-1200.C STEEL BEAM
07-4213.A5 KINGSPAN SERIES MICRO RIB FINISH
07-4213.A6 INTEGRATED TRANSLUCENT PANEL SYSTEM
09-2216.A METAL STUD

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
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SHEET TITLE

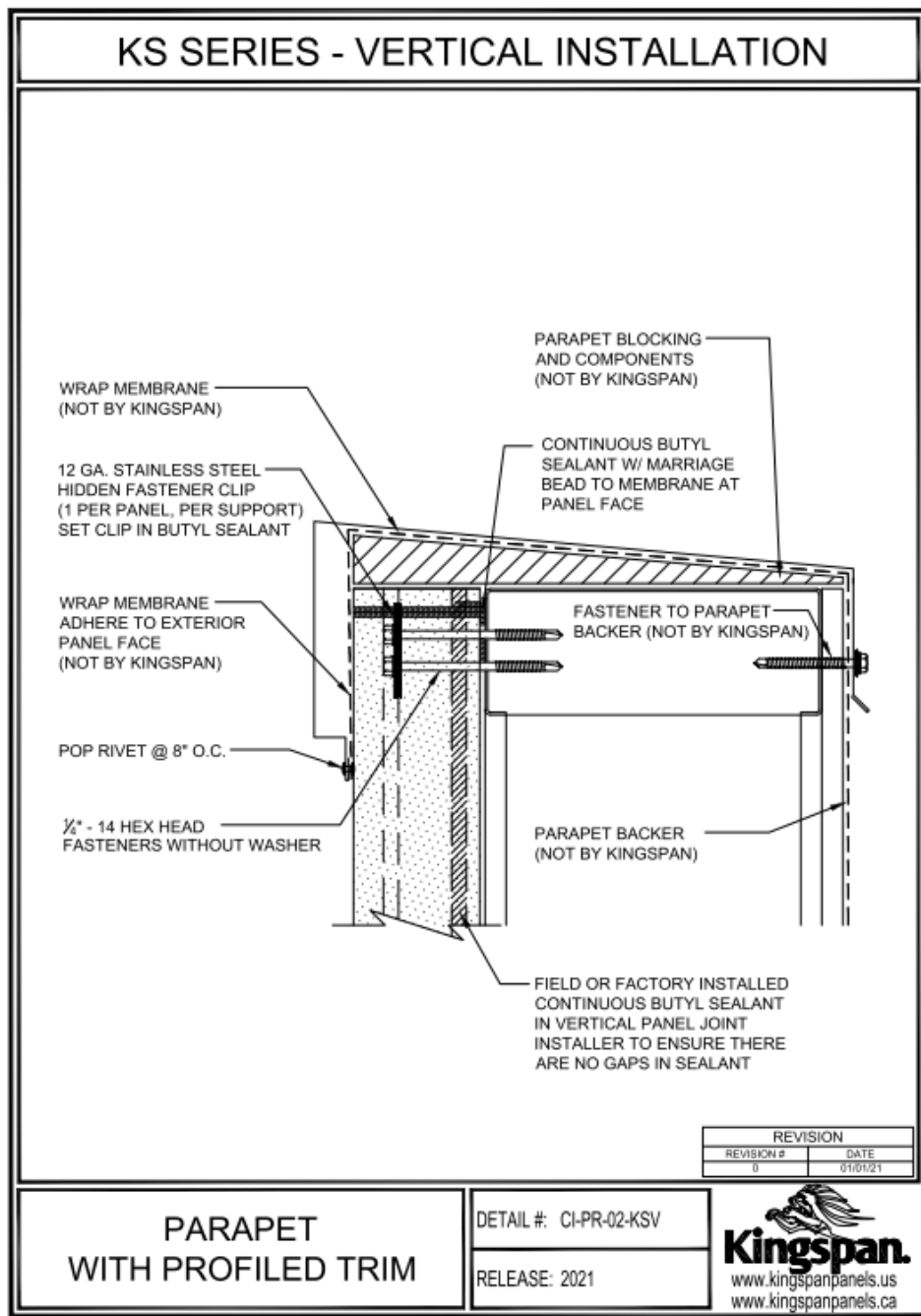
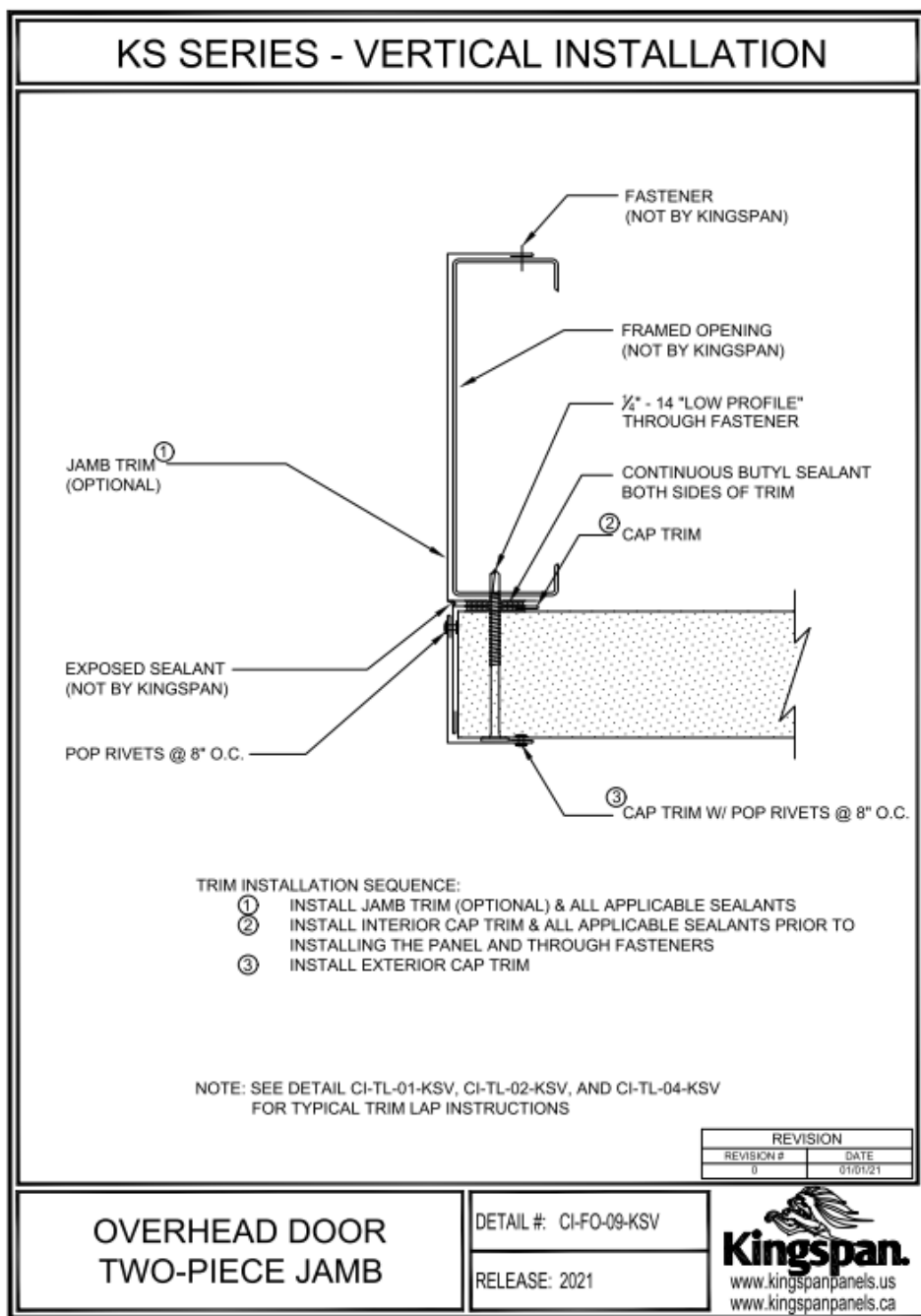
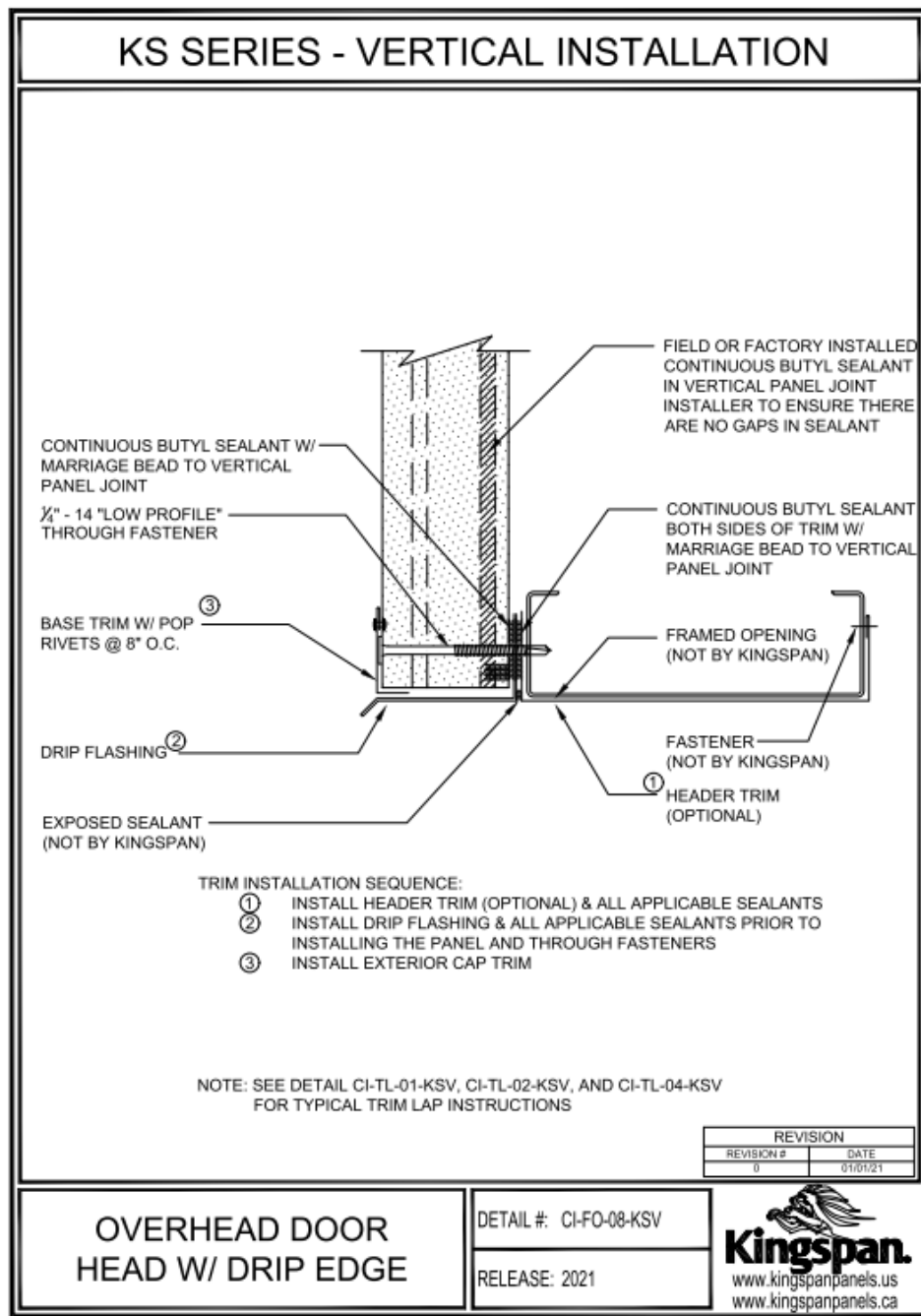
WALL SECTIONS

SHEET NUMBER

A-302

Sequence of

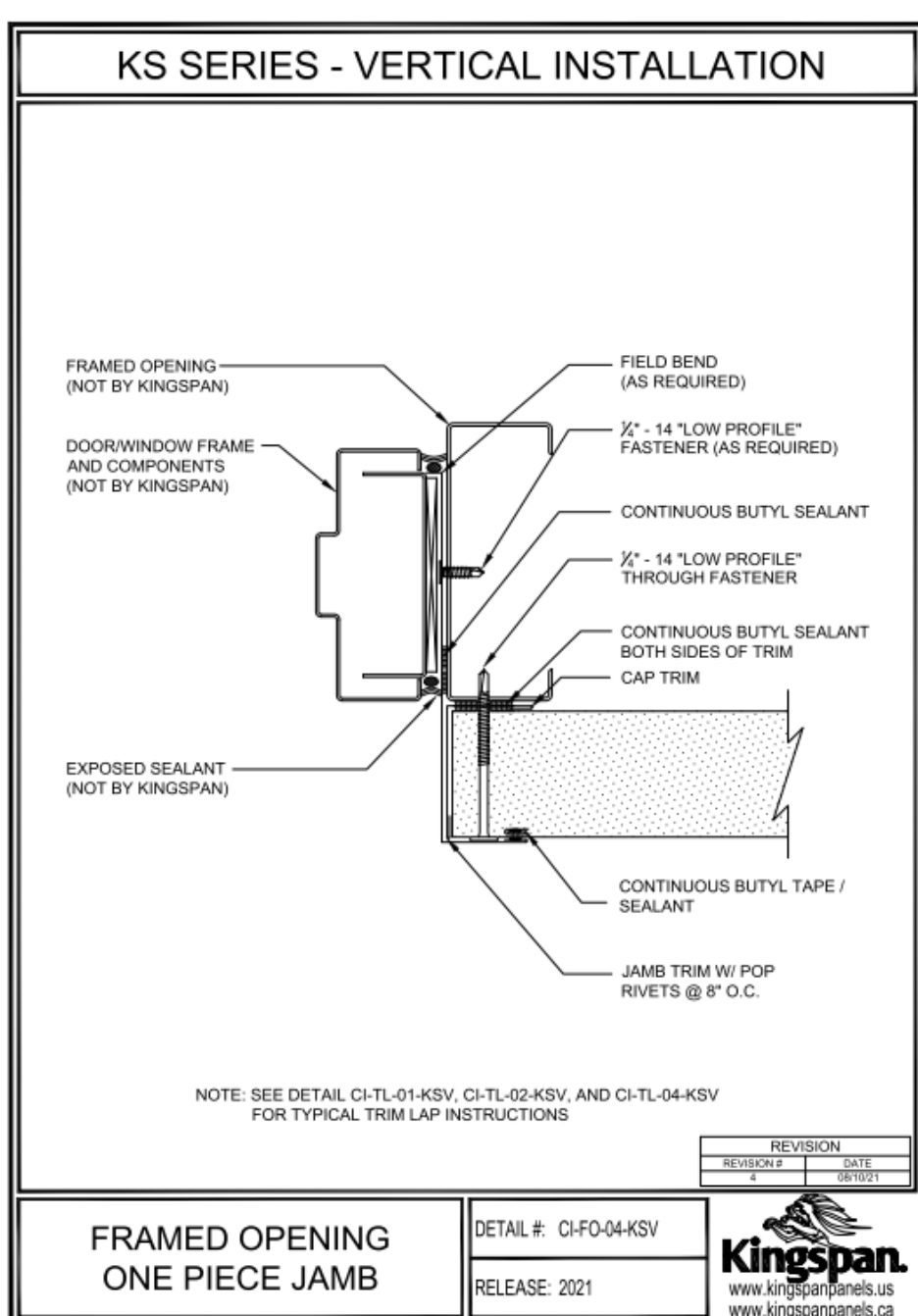
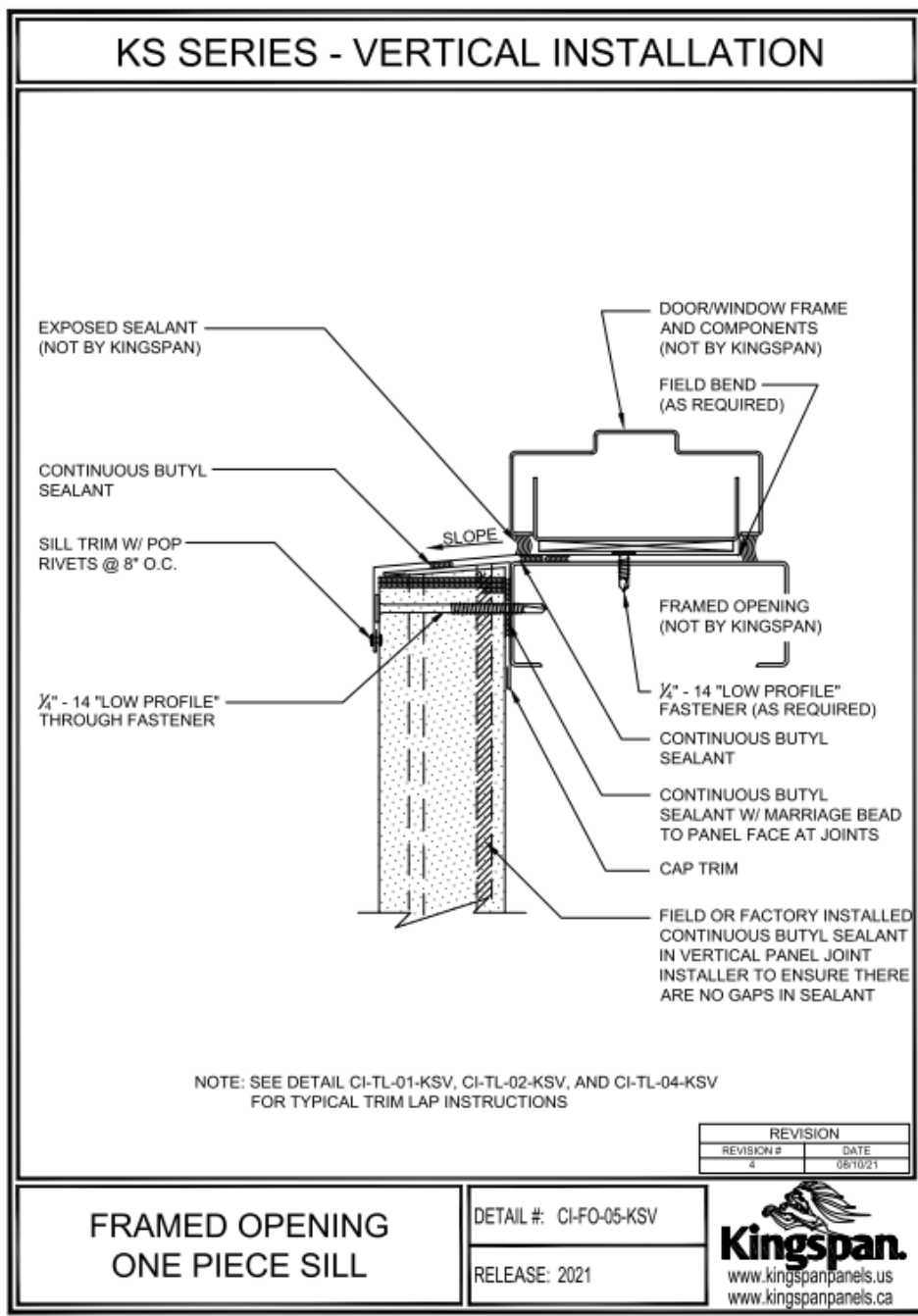
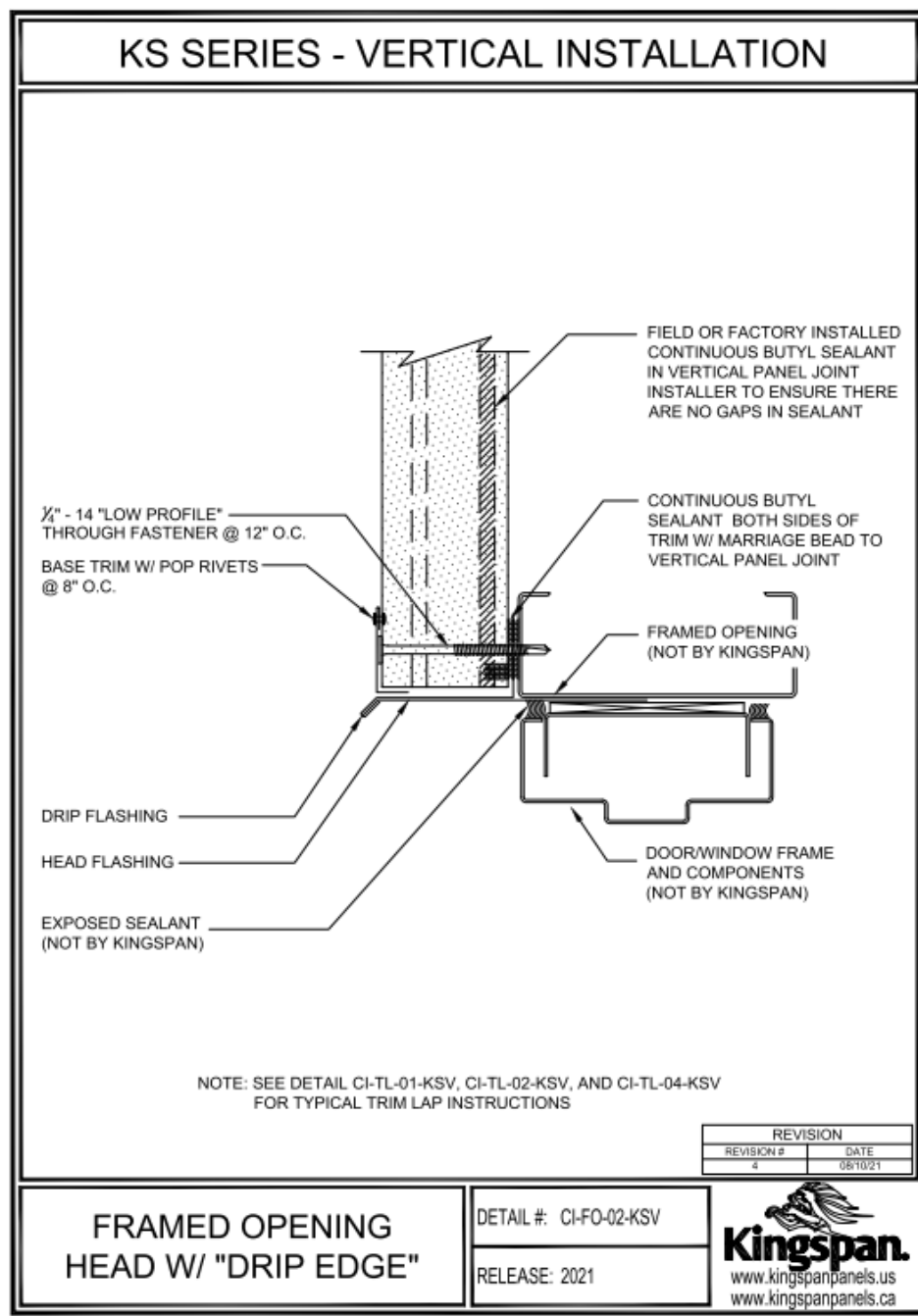
BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



7 KS SERIES
1/4" = 1'-0"

8 KS SERIES
1/4" = 1'-0"

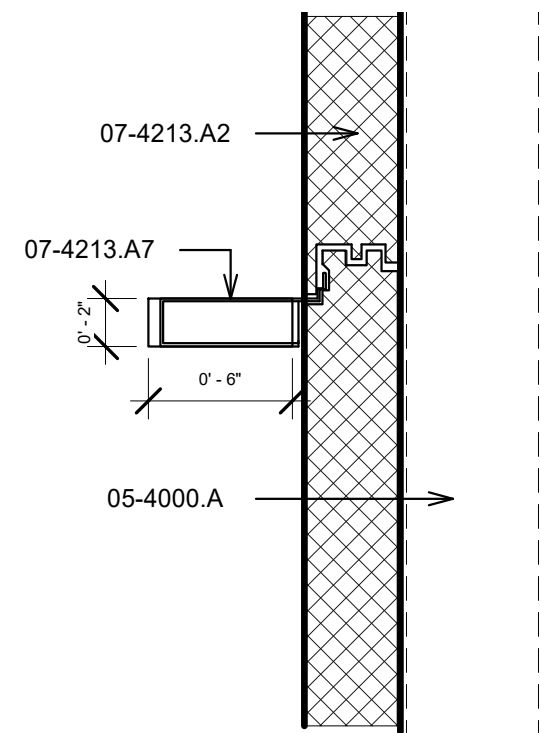
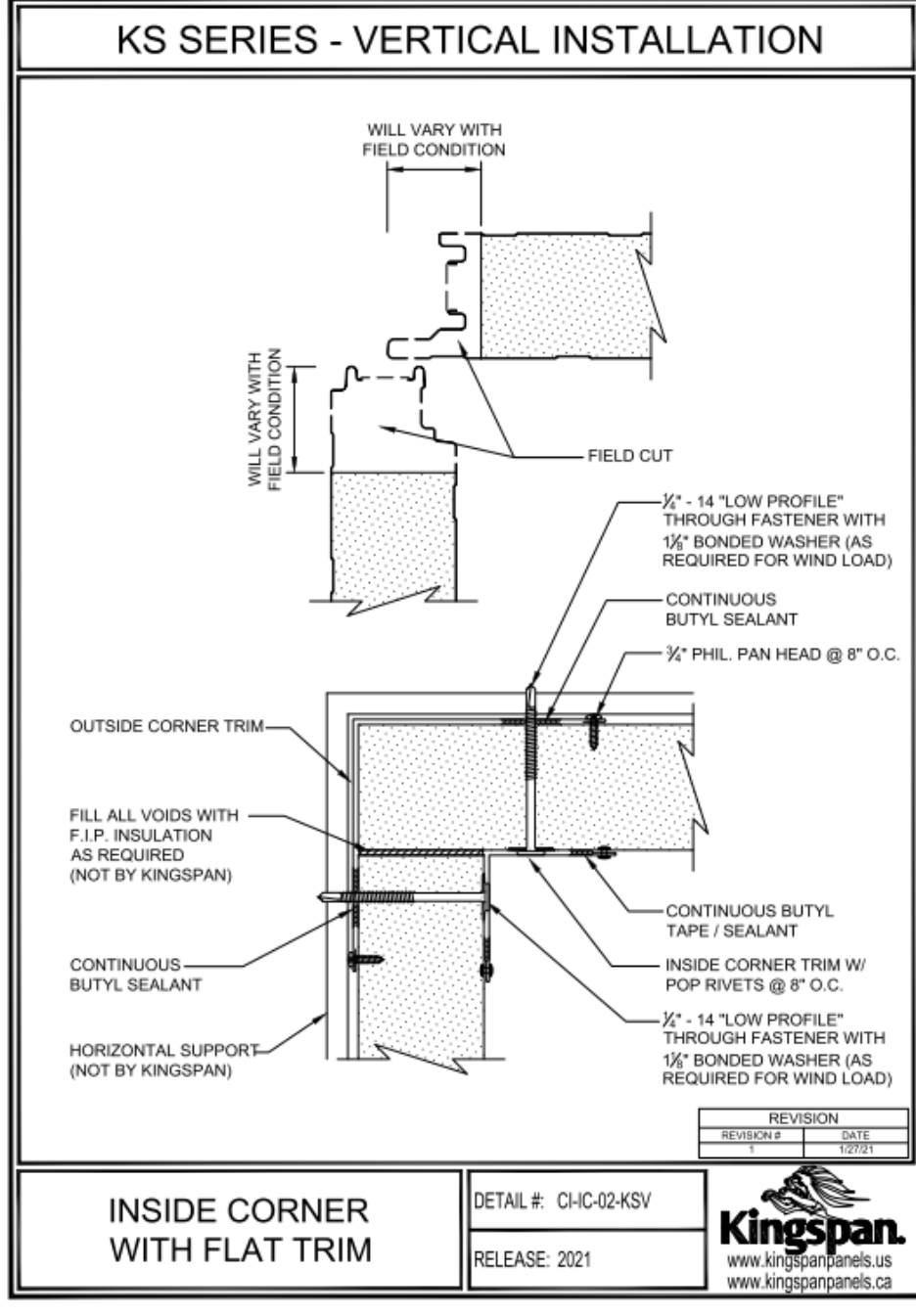
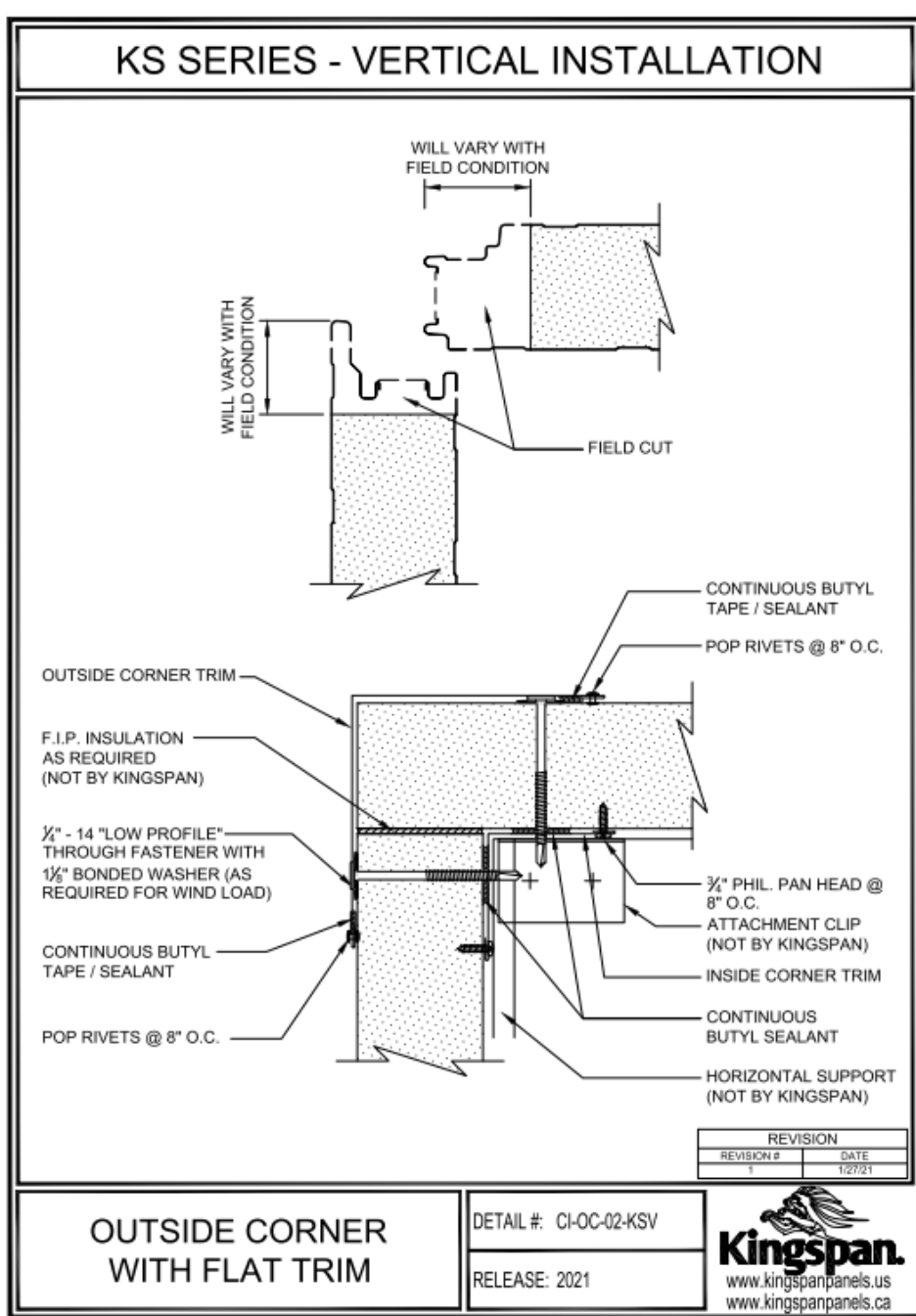
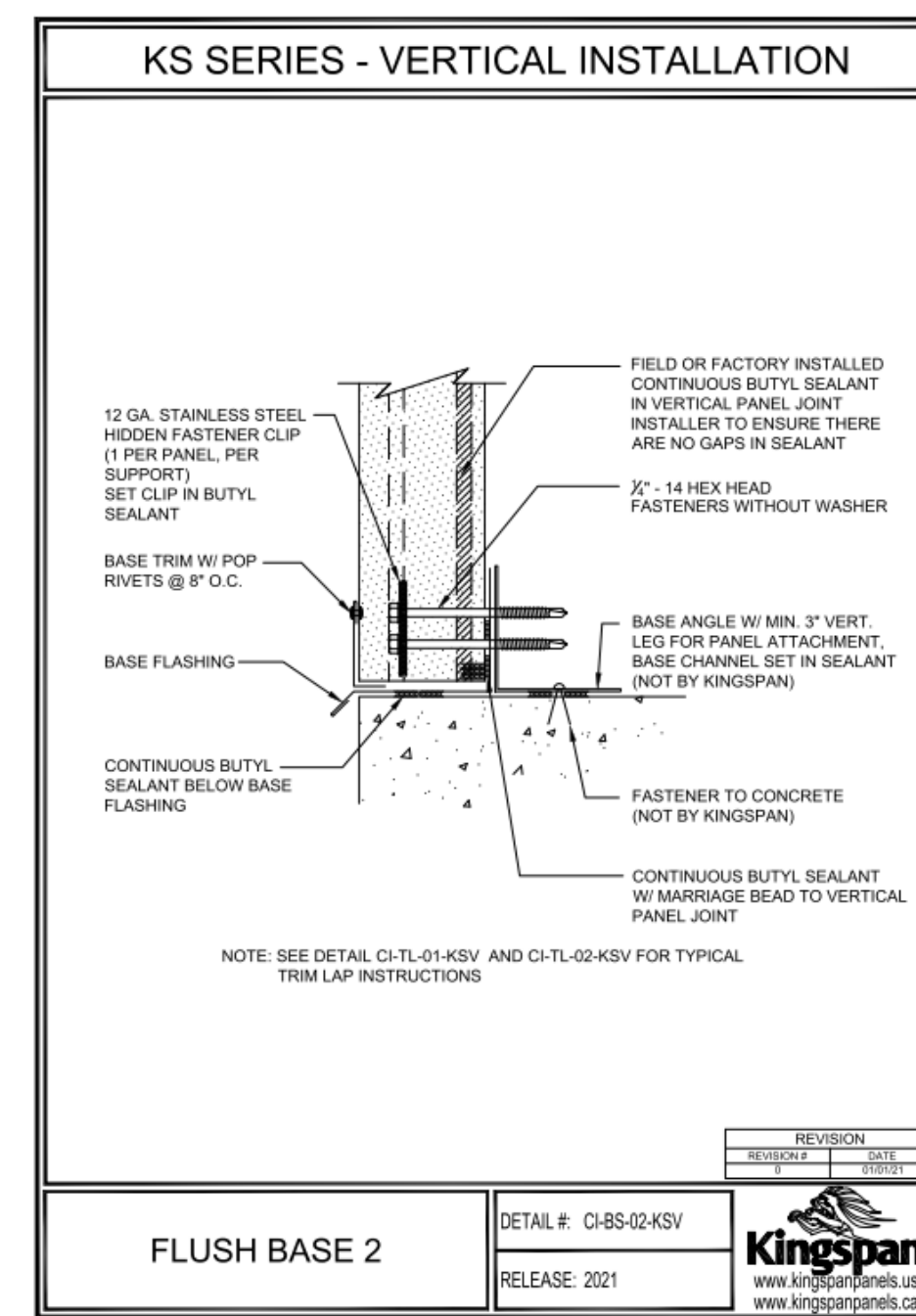
9 KS SERIES
1/4" = 1'-0"



4 KS SERIES
1/4" = 1'-0"

5 KS SERIES
1/4" = 1'-0"

6 KS SERIES
1/4" = 1'-0"



1 KS SERIES
1/4" = 1'-0"

2 KS SERIES
1/4" = 1'-0"

3 KS SERIES
1/4" = 1'-0"

10 ACCENT FIN - HORIZONTAL
1 1/2" = 1'-0"

GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

- | | |
|------------|---|
| 05-4000 A | STRUCTURAL STUD FRAMING |
| 07-4213 A2 | KINGSPAN INSULATED METAL HORIZONTAL WALL PANELS |
| 07-4213 A7 | KINGSPAN ACCENT FIN - RECTANGLE |

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

MARCH 25, 2022

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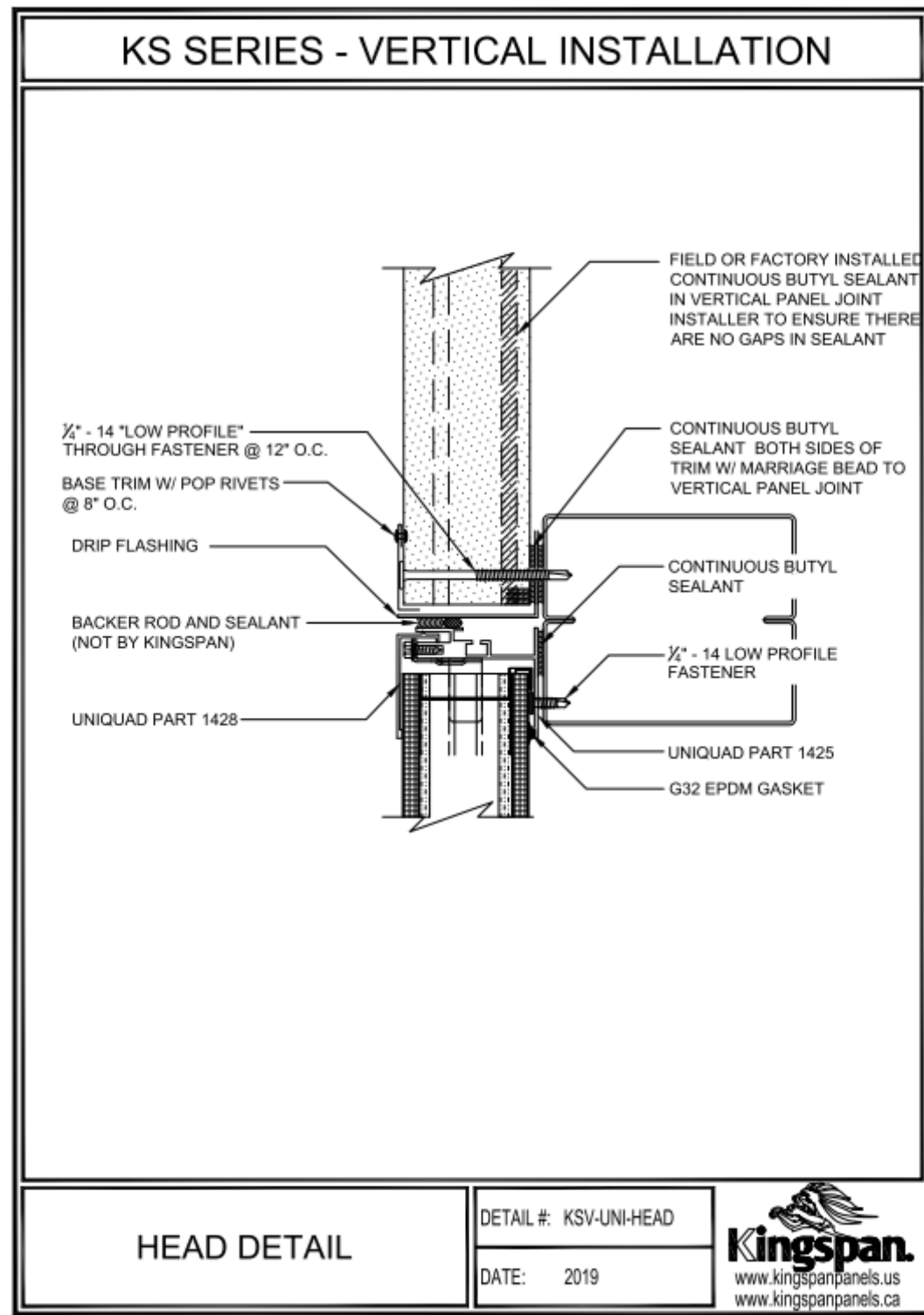
WALL
DETAILS

SHEET NUMBER

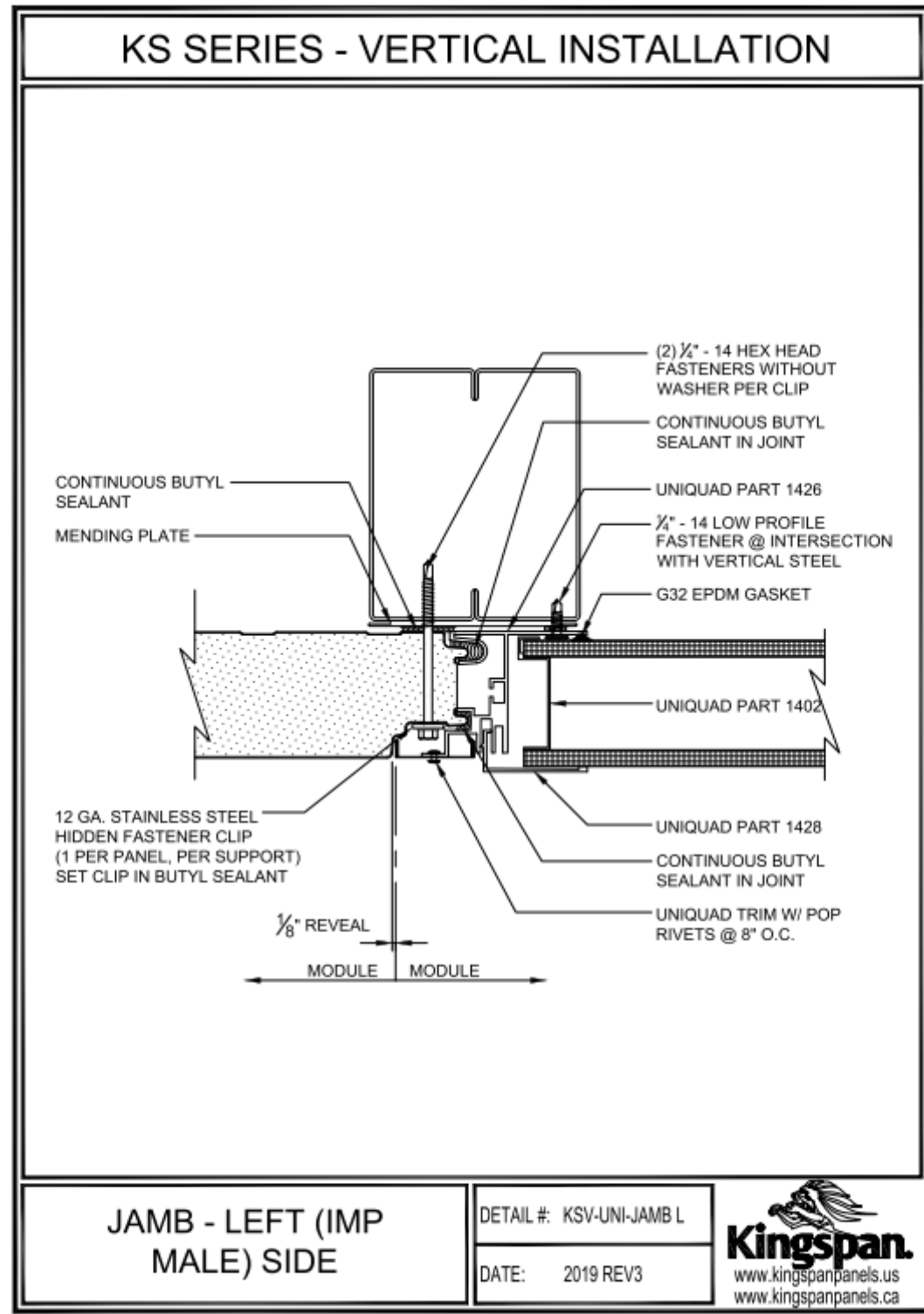
A-303

Sequence of

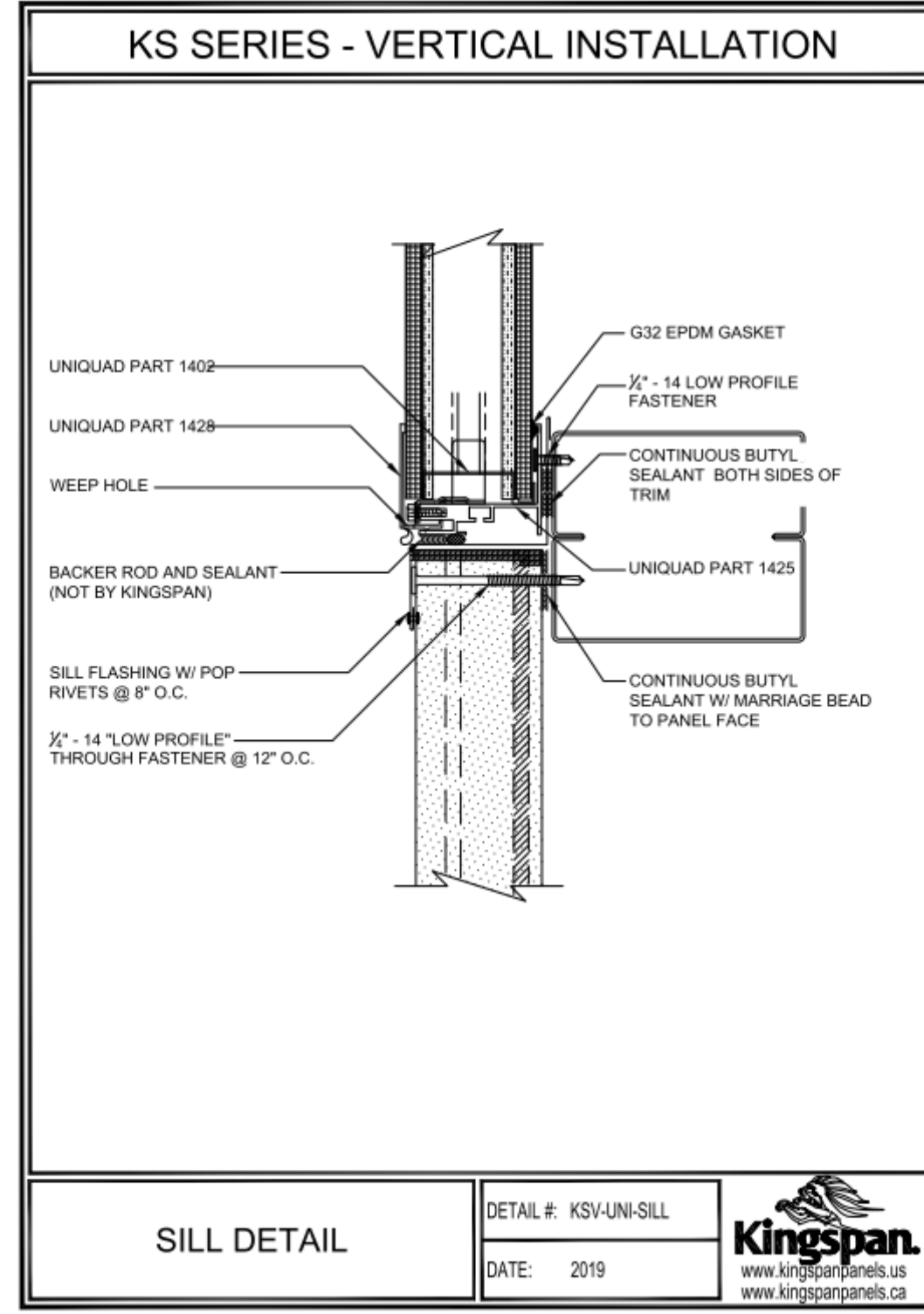
BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



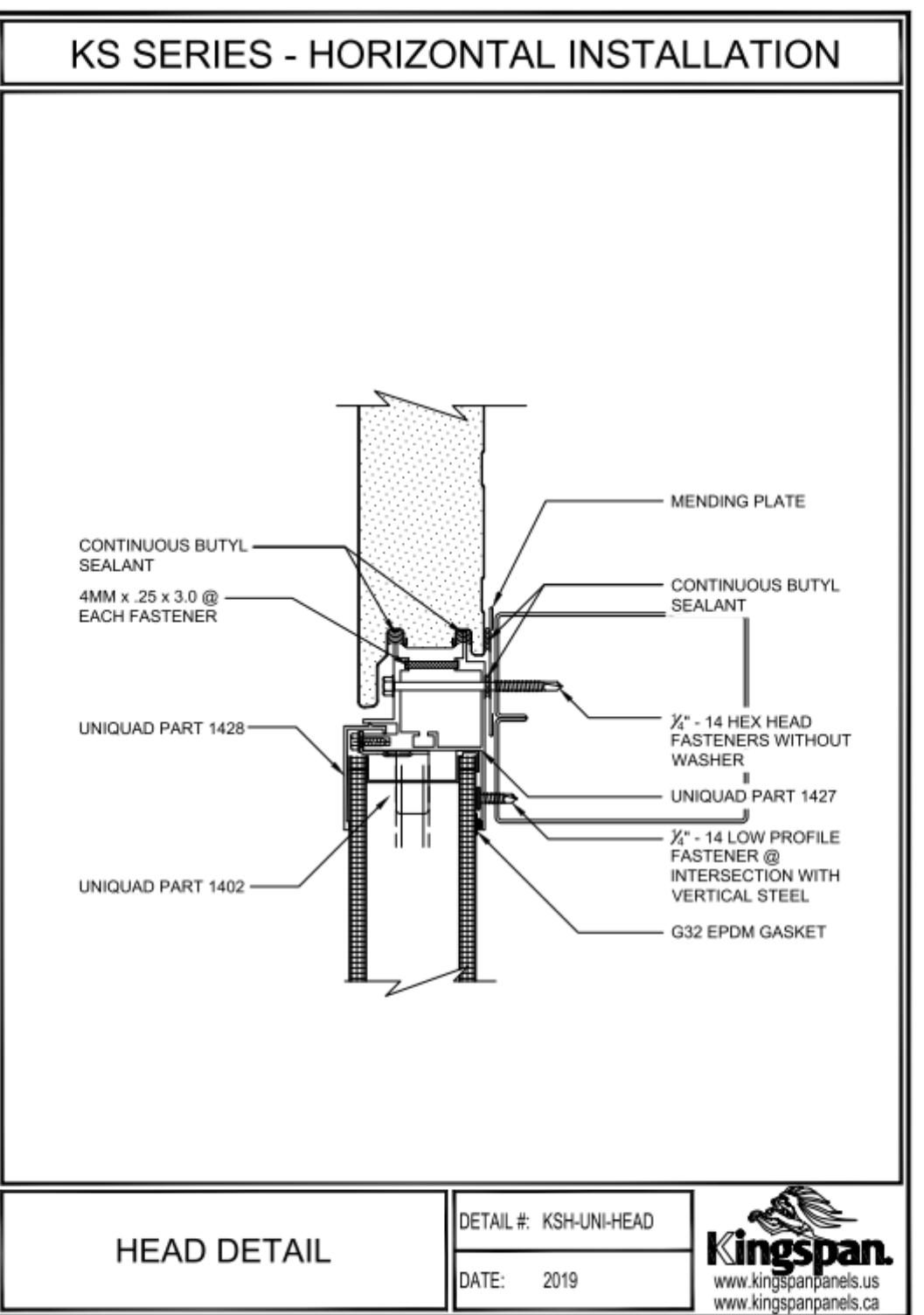
D1 VERTICAL INSTALLATION - HEAD DETAIL
3/32" = 1'-0"



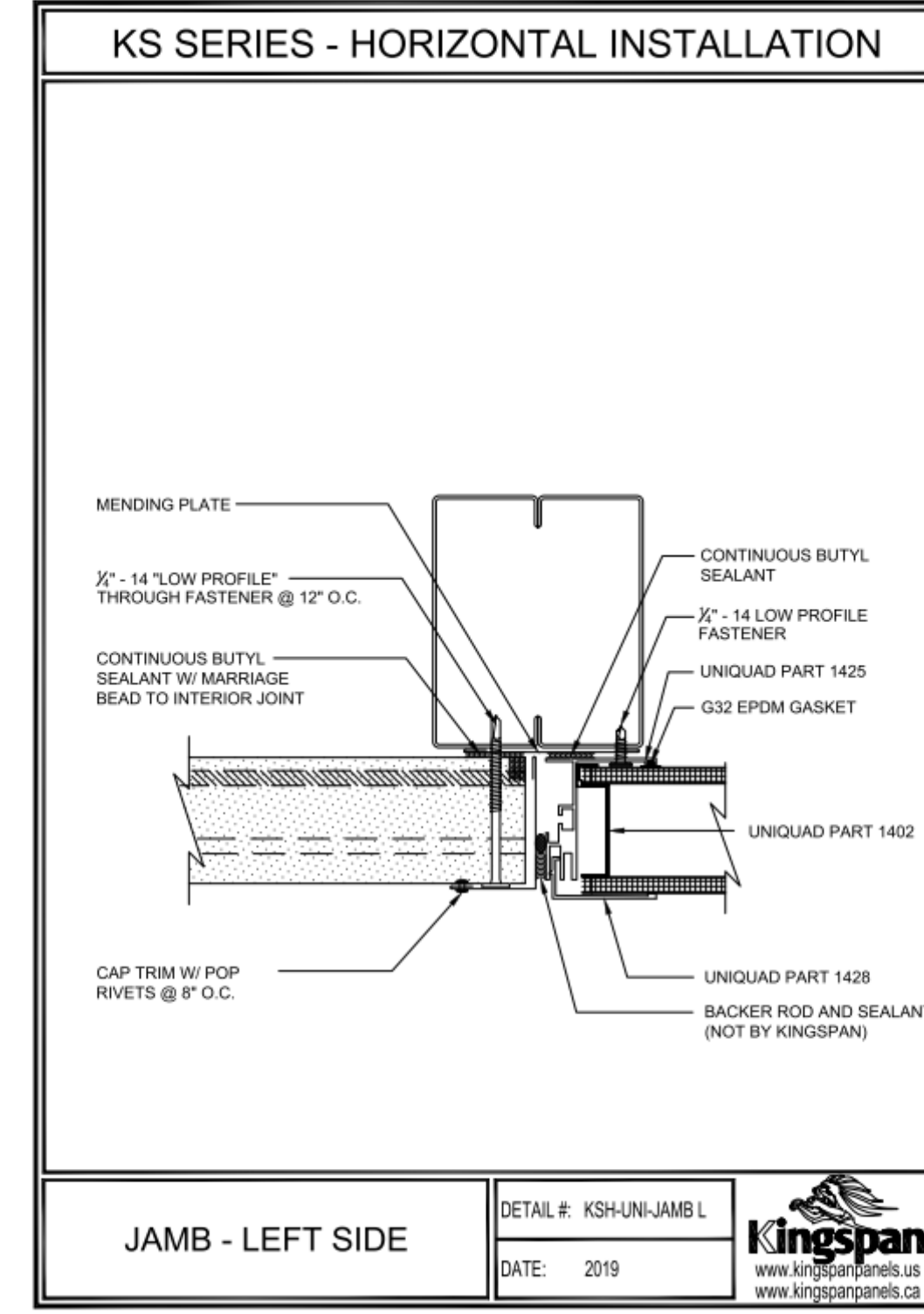
D3 VERTICAL INSTALLATION - JAMB LEFT (IMP MALE) SIDE
3/32" = 1'-0"



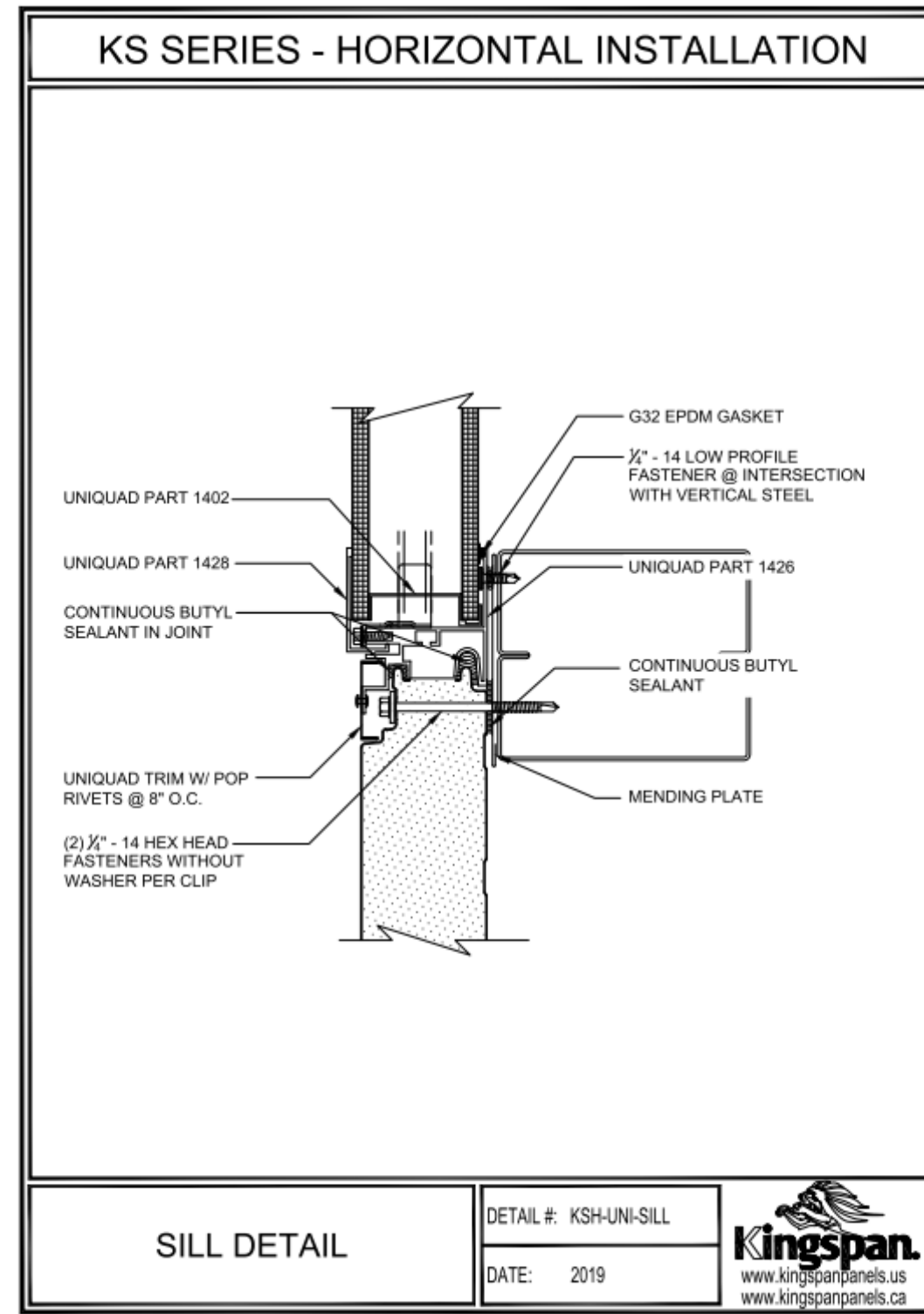
D5 VERTICAL INSTALATION - SILL DETAIL
3/32" = 1'-0"



A1 HORIZONTAL INSTALLATION - HEAD DETAIL
3/32" = 1'-0"



A3 HORIZONTAL INSTALLATION - JAMB - LEFT SIDE
3/32" = 1'-0"



A5 HORIZONTAL INSTALLATION - SILL DETAIL
3/32" = 1'-0"

GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

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WALL DETAILS

SHEET NUMBER

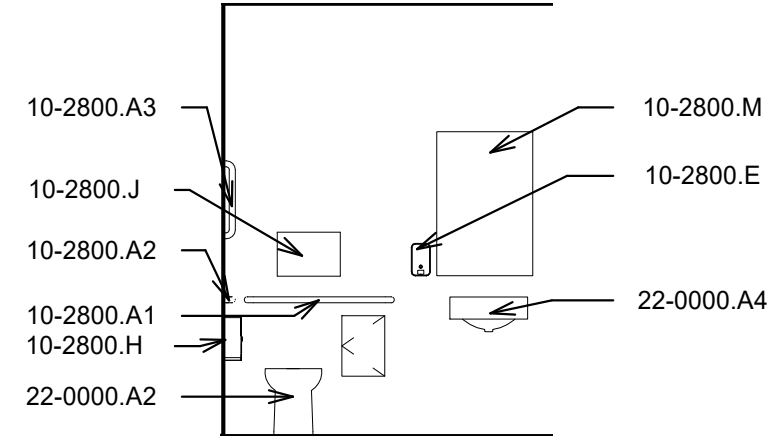
A-304

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

GENERAL NOTES

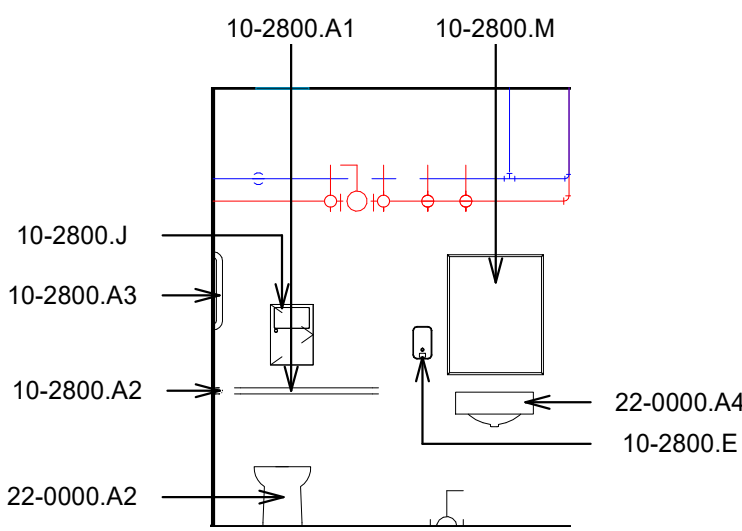
- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- XX



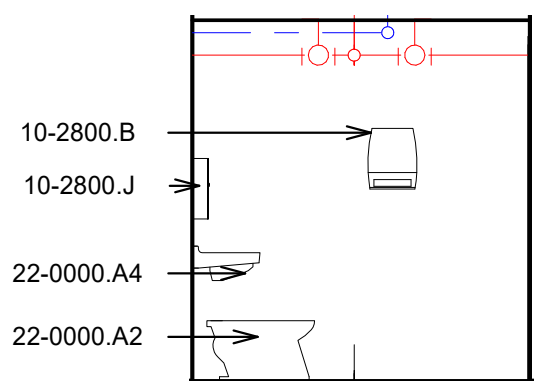
E5 RM 102 INTERIOR ELEVATION
1/4" = 1'-0"

REFERENCE KEYNOTES

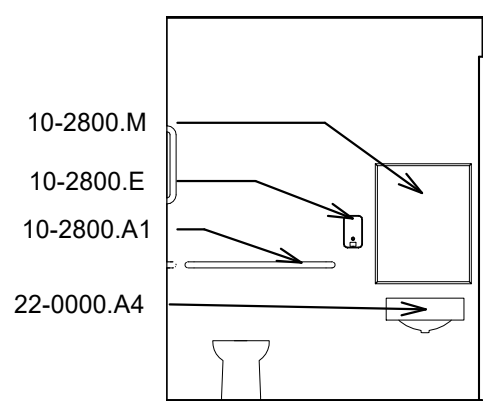
- 10-2113.A TOILET PARTITION
- 10-2113.B URINAL SCREEN
- 10-2800.A GRAB BAR
- 10-2800.A1 GRAB BAR, 36" LONG
- 10-2800.A2 GRAB BAR, 42" LONG
- 10-2800.A3 GRAB BAR, VERTICAL, 18"
- 10-2800.B PAPER TOWEL DISPENSER
- 10-2800.E SOAP DISPENSER
- 10-2800.H TOILET TISSUE DISPENSER
- 10-2800.J TOILET SEAT COVER DISPENSER
- 10-2800.K7 SHOWER BASE
- 10-2800.K8 BUILT-IN SHOWER
- 10-2800.M MIRROR, SIZE
- 10-5113.A2 METAL LOCKERS, DOUBLE TIER
- 10-5113.B BENCH, FLOOR ANCHORED
- 10-5113.B1 BENCH, ADA COMPLIANT
- 22-0000.A PLUMBING FIXTURE
- 22-0000.A2 FLOOR MOUNTED TOILET
- 22-0000.A3 URINAL
- 22-0000.A4 WALL MOUNTED HAND WASH SINK



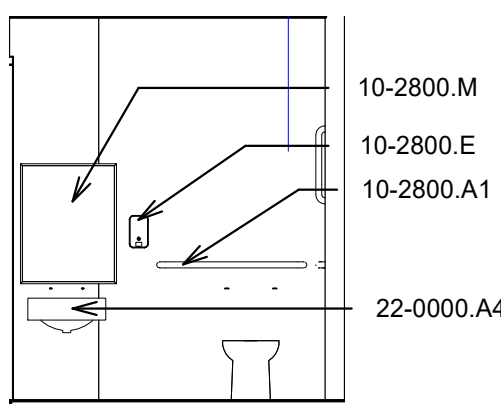
D1 RM 128 ELEVATION
1/4" = 1'-0"



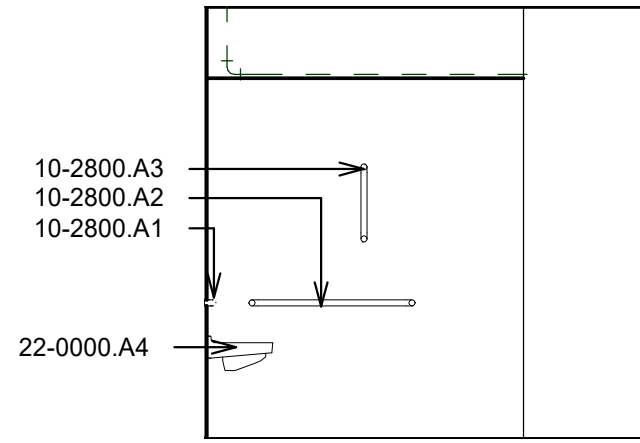
D2 RM128 ELEVATION
1/4" = 1'-0"



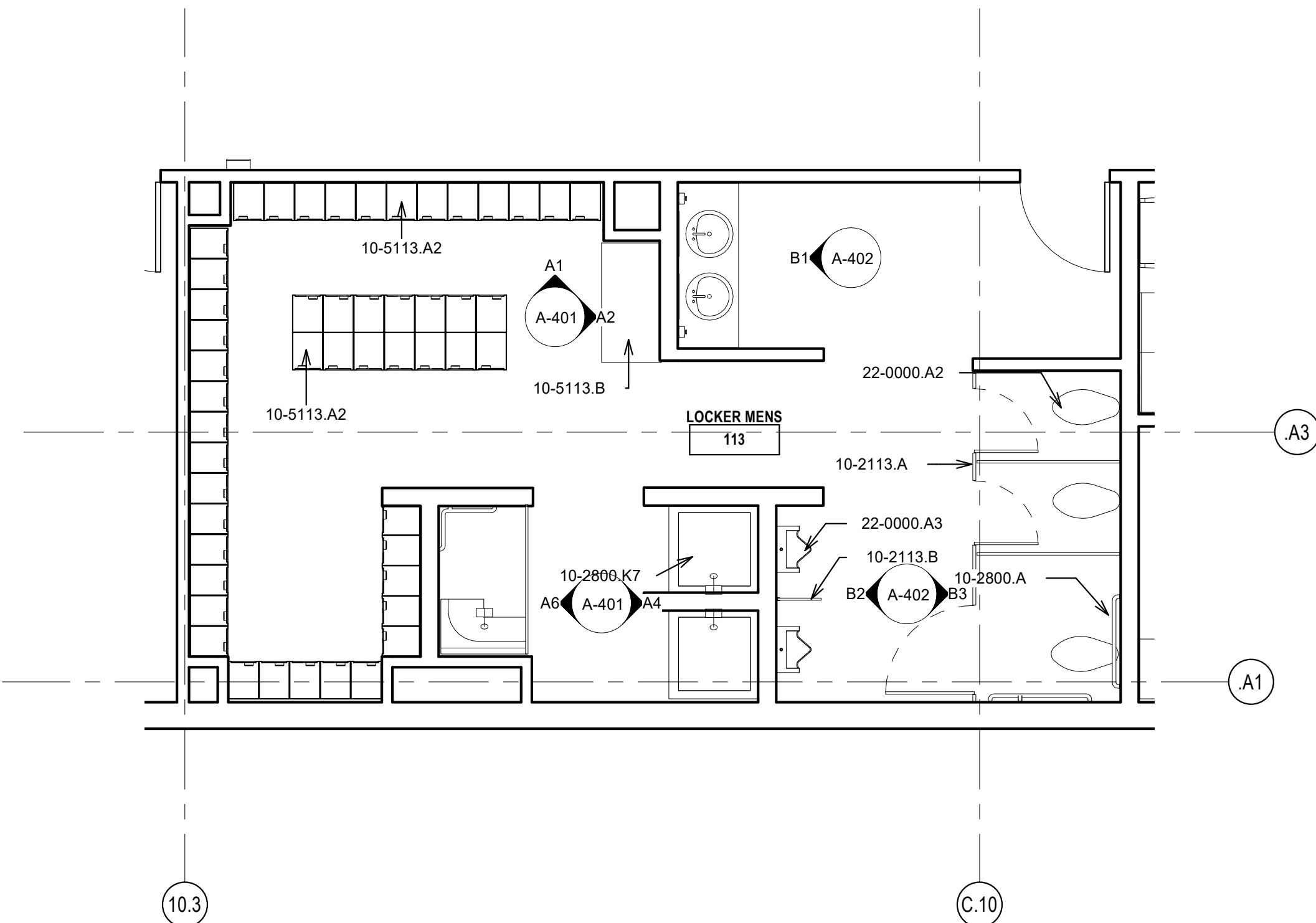
D3 RM 135 ELEVATION
1/4" = 1'-0"



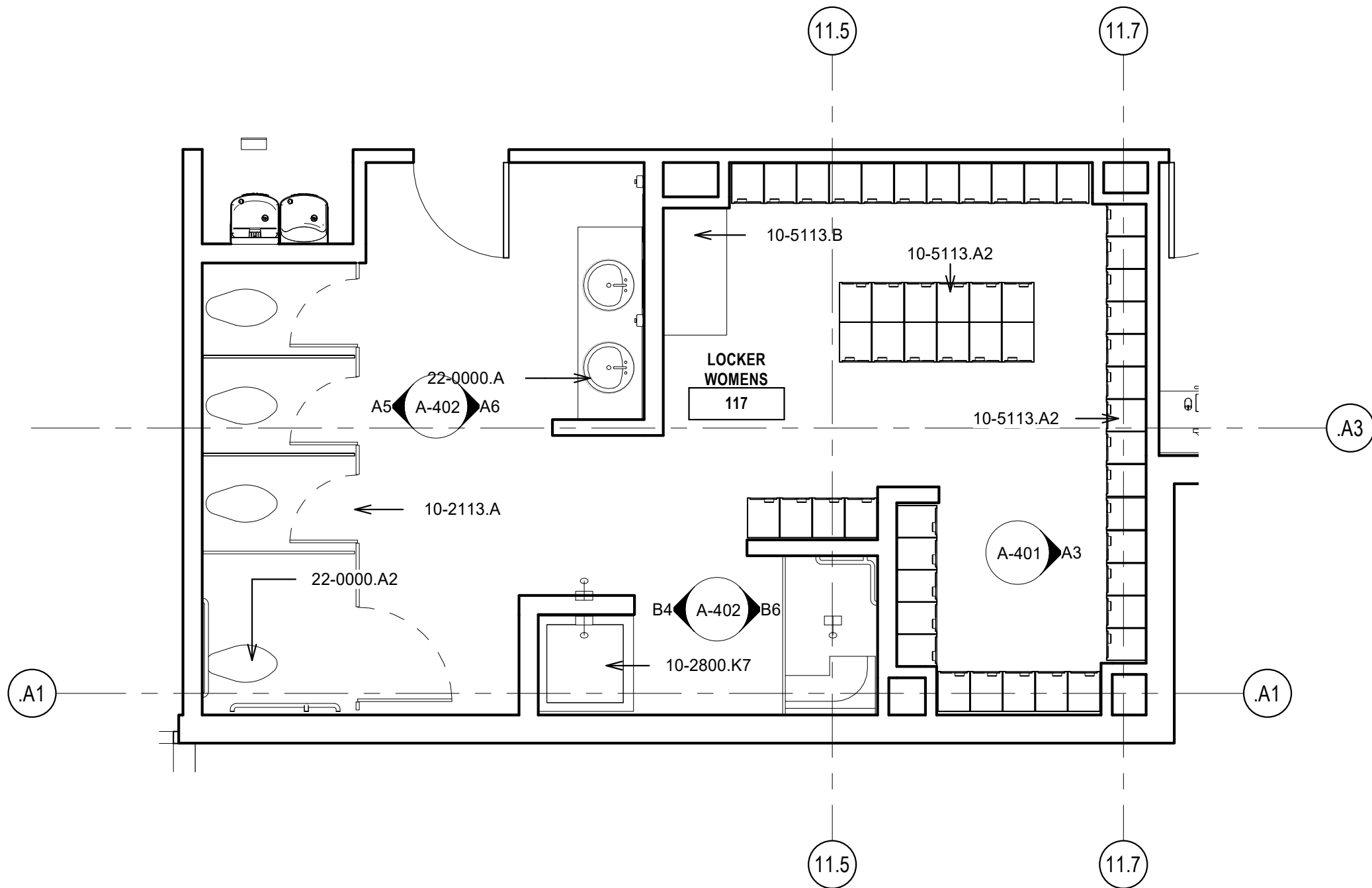
D4 RM 136 ELEVATION
1/4" = 1'-0"



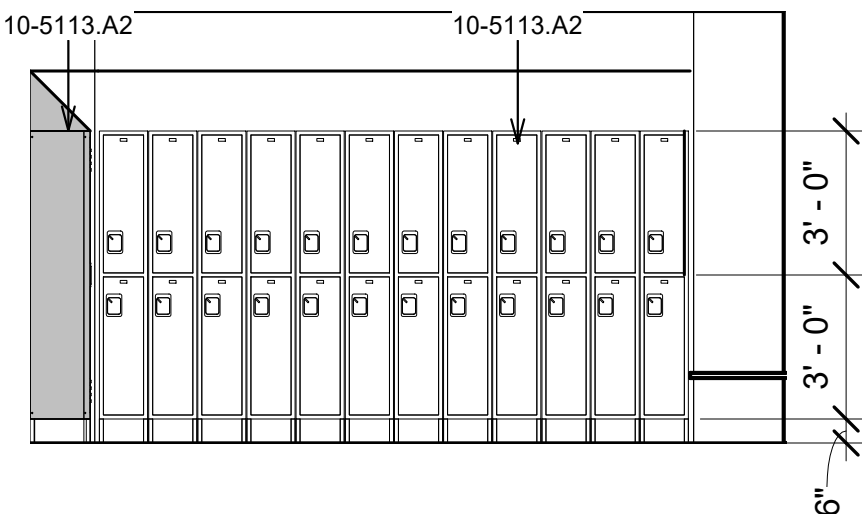
D5 RM 124 ELEVATION
1/4" = 1'-0"



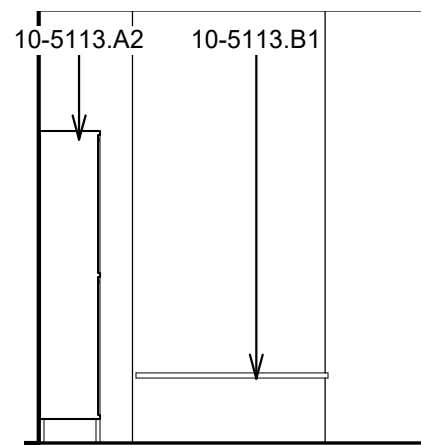
B2 LOCKER MENS ENLARGED PLAN
1/4" = 1'-0"



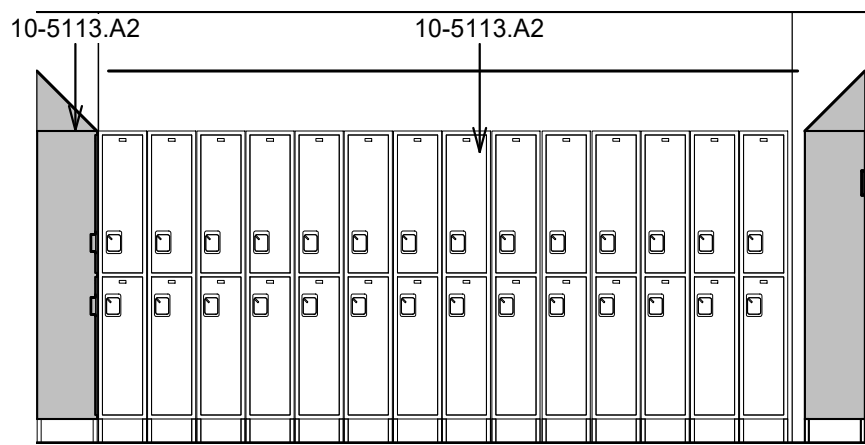
B5 LOCKER WOMENS ENLARGED PLAN
1/4" = 1'-0"



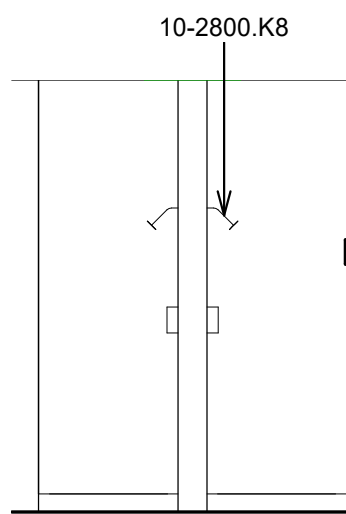
A1 33 INTERIOR ELEVATION
1/4" = 1'-0"



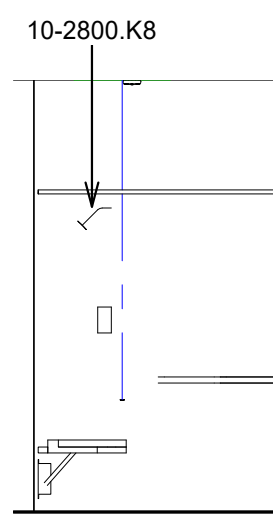
A2 BENCH ELEVATION
1/4" = 1'-0"



A3 36 INTERIOR ELEVATION
1/4" = 1'-0"



A4 ELEVATION @ MENS SHOWERS
1/4" = 1'-0"



A6 MEN ADA SHOWER ELEVATION
1/4" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

MARCH 25, 2022

OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC



8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

NOT FOR CONSTRUCTION

ARCHITECT

MARK	DATE	DESCRIPTION
	MARCH 25, 2022	

PROJECT NUMBER: 2020.017
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CHECKED BY: Checker
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SHEET TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS

SHEET NUMBER

A-401

Sequence of

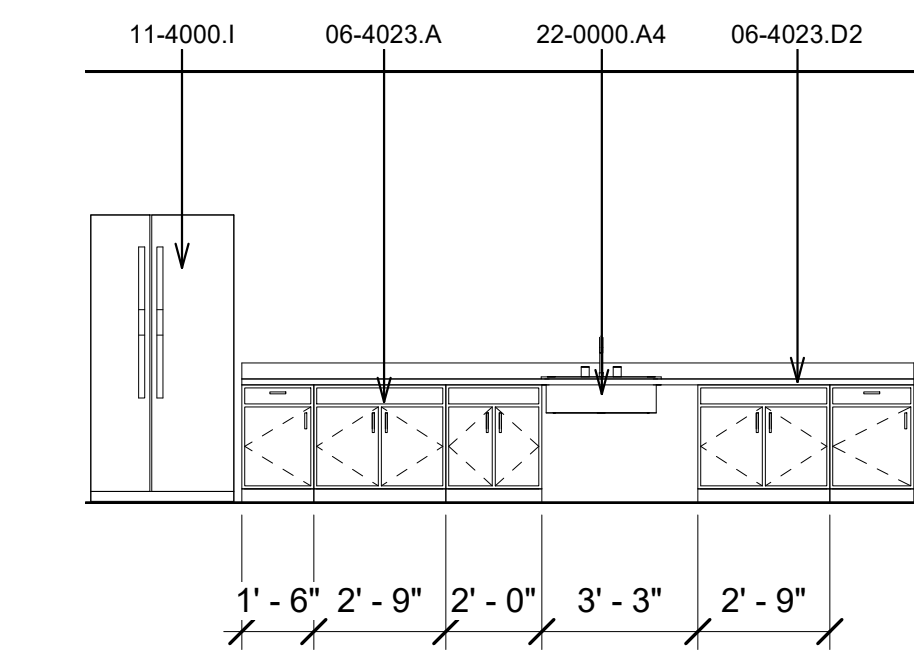
BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

GENERAL NOTES

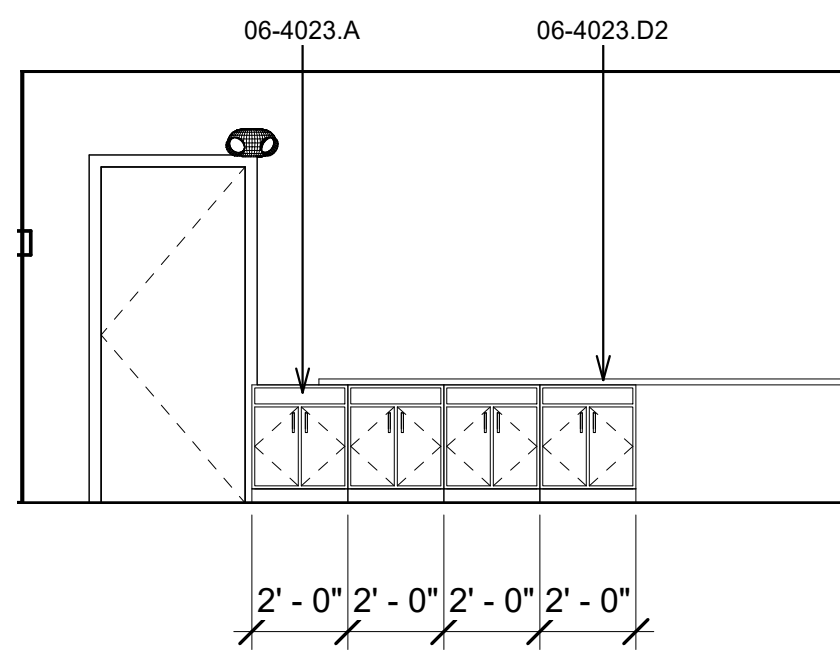
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- XX

REFERENCE KEYNOTES

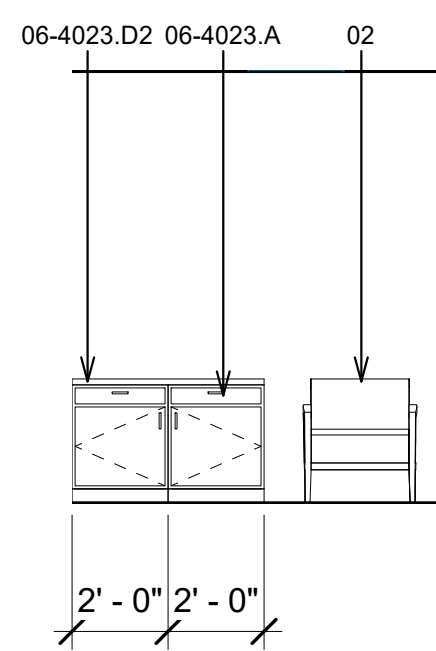
06-4023.A	CASEWORK, PLASTIC LAMINATE
06-4023.D2	COUNTER TOP, SOLID SURFACE
10-2800.E	SOAP DISPENSER
10-2800.K8	BUILT-IN SHOWER
10-2800.M	MIRROR, SIZE
11-4000.I	FRIDGE
22-0000.A2	FLOOR MOUNTED TOILET
22-0000.A3	URINAL
22-0000.A4	WALL MOUNTED HAND WASH SINK



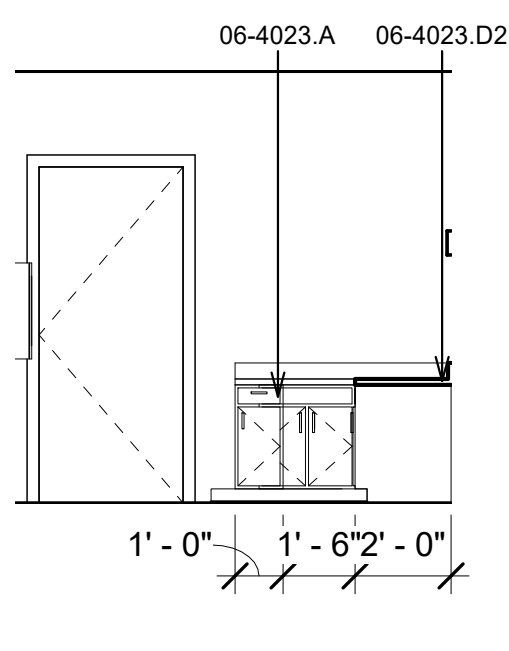
E1 31 INTERIOR ELEVATION
1/4" = 1'-0"



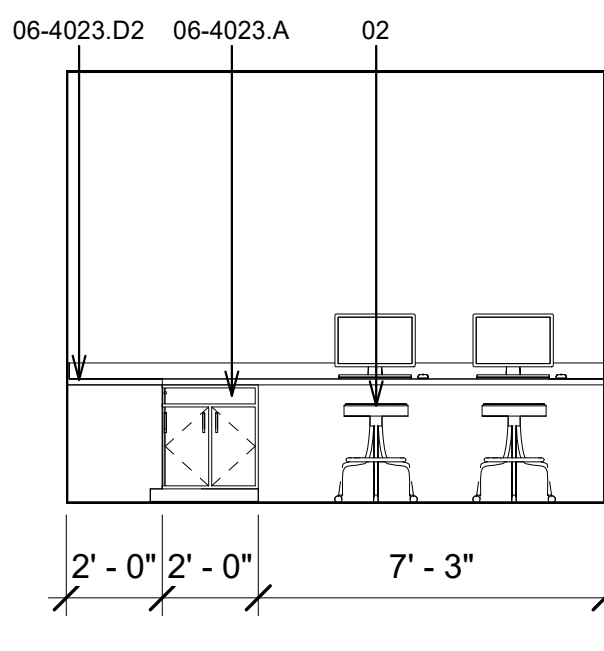
E2 32 INTERIOR ELEVATION
1/4" = 1'-0"



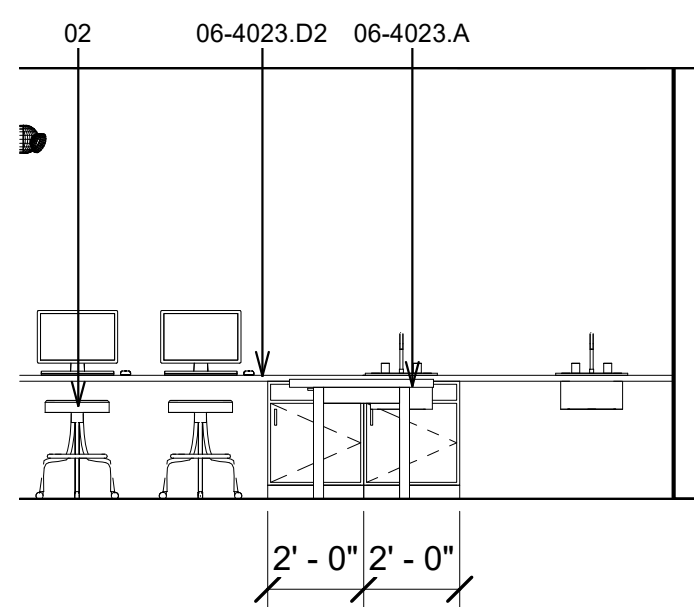
E3 34 INTERIOR ELEVATION
1/4" = 1'-0"



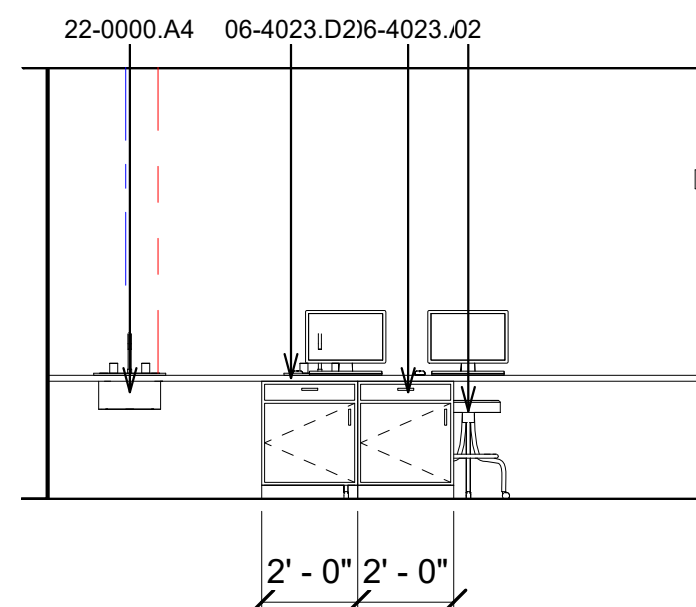
E4 37 INTERIOR ELEVATION
1/4" = 1'-0"



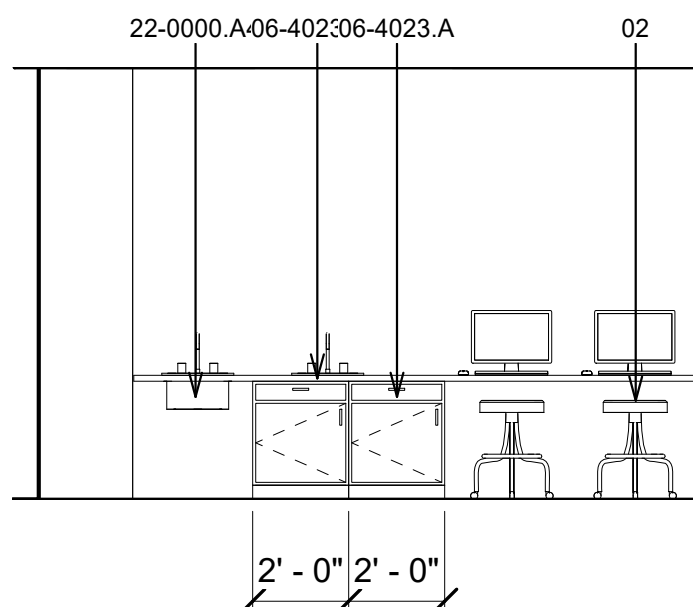
E5 37 INTERIOR ELEVATION
1/4" = 1'-0"



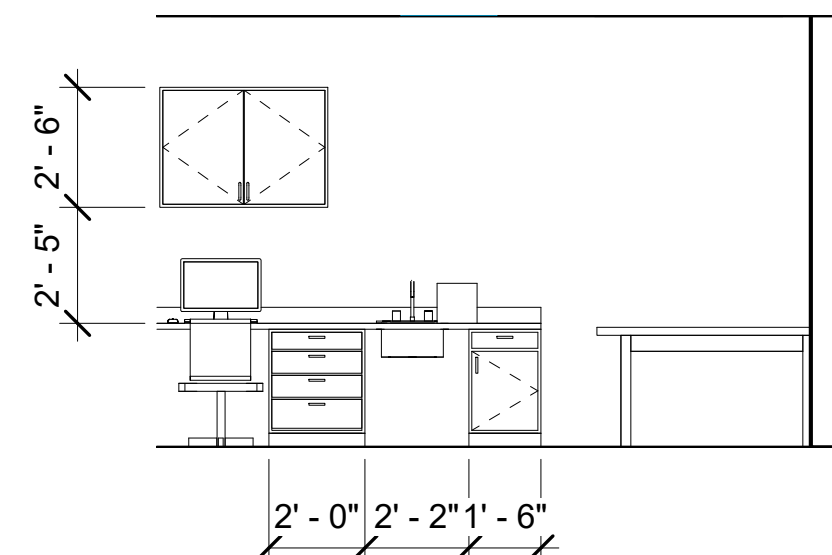
C1 26 INTERIOR ELEVATION
1/4" = 1'-0"



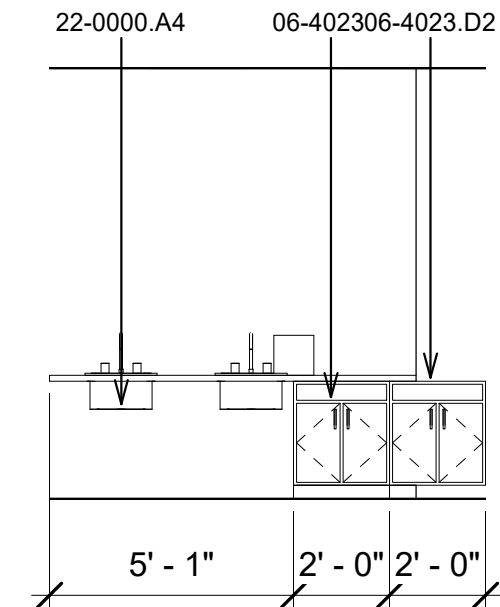
C2 25 INTERIOR ELEVATION
1/4" = 1'-0"



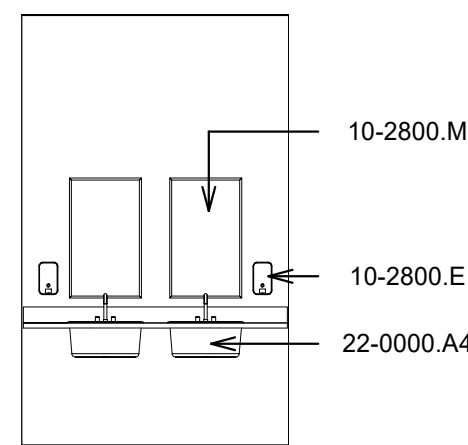
C3 24 INTERIOR ELEVATION
1/4" = 1'-0"



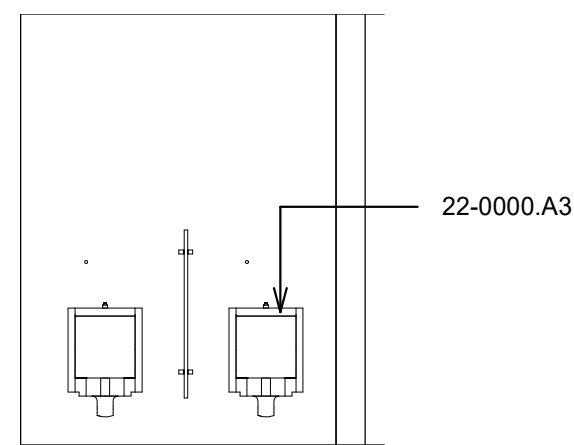
C4 20 INTERIOR ELEVATION
1/4" = 1'-0"



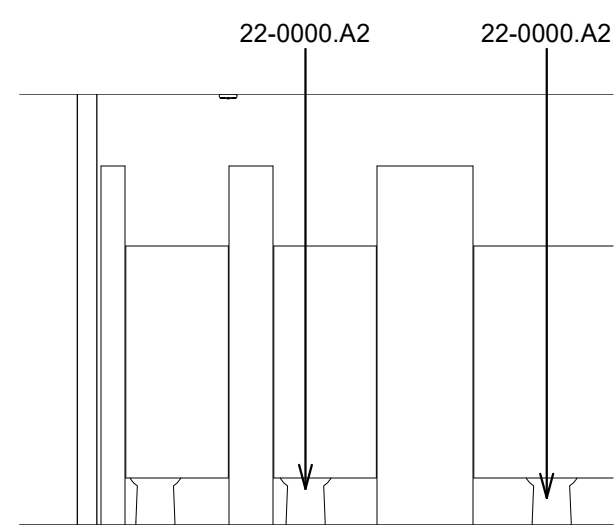
C5 38 INTERIOR ELEVATION
1/4" = 1'-0"



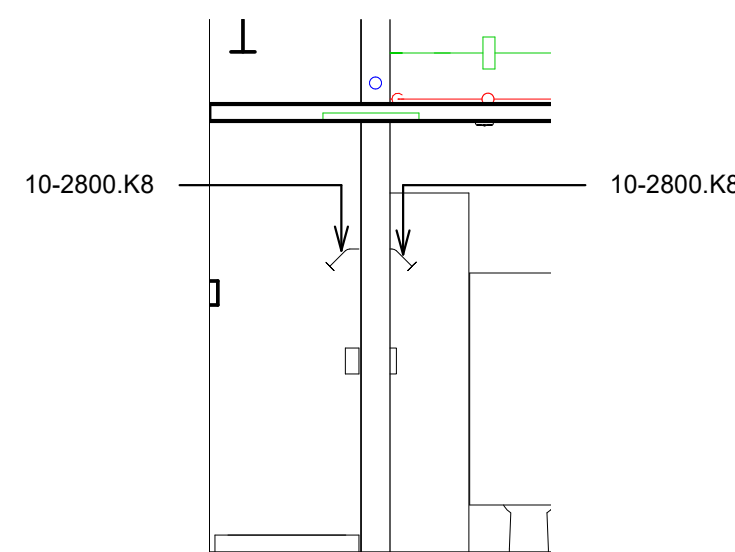
B1 MEN LOCKER ROOM SINKS
1/4" = 1'-0"



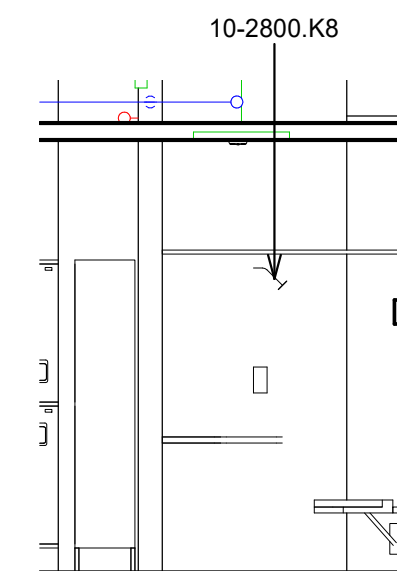
B2 MEN LOCKER ROOM URINALS
1/4" = 1'-0"



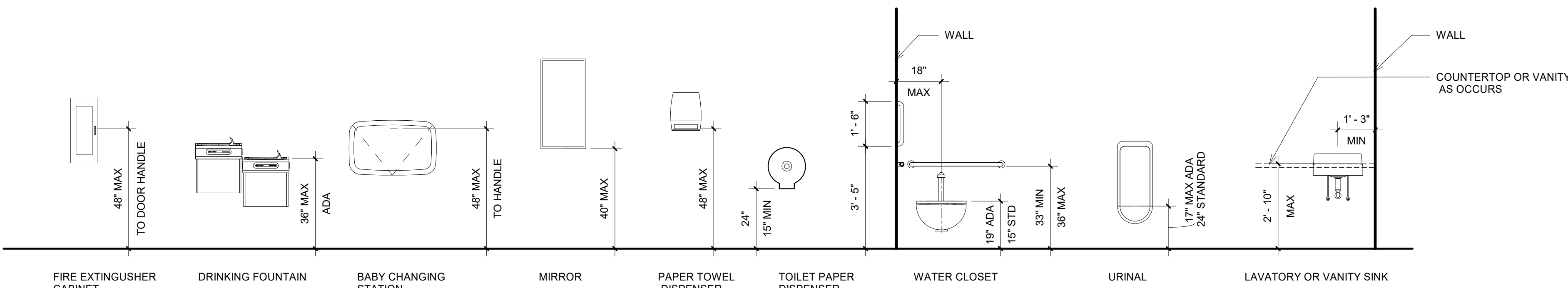
B3 MEN LOCKER ROOM TOILETS
1/4" = 1'-0"



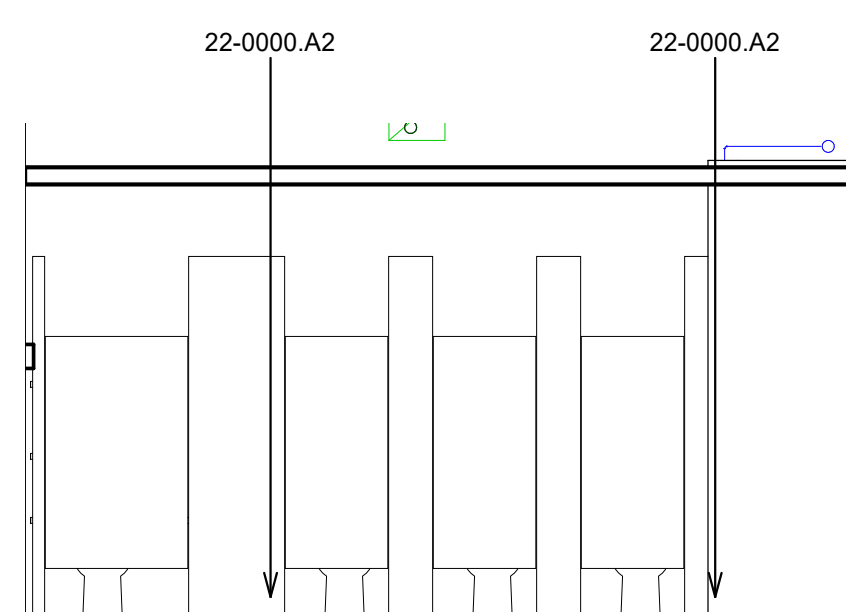
B4 WOMEN LOCKER ROOM SHOWERS
1/4" = 1'-0"



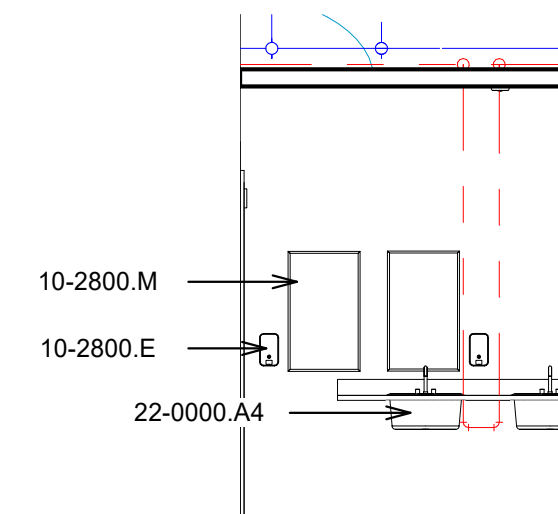
B6 WOMEN LOCKER ROOM ADA SHOWER
1/4" = 1'-0"



A5 WOMEN LOCKER ROOM TOILETS
1/4" = 1'-0"



A6 WOMEN LOCKER ROOM SINKS
1/4" = 1'-0"



EQUIPMENT & FIXTURE MOUNTING HEIGHTS
3/8" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

MARCH 25, 2022

OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC



8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
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MARK DATE DESCRIPTION

MARCH 25, 2022



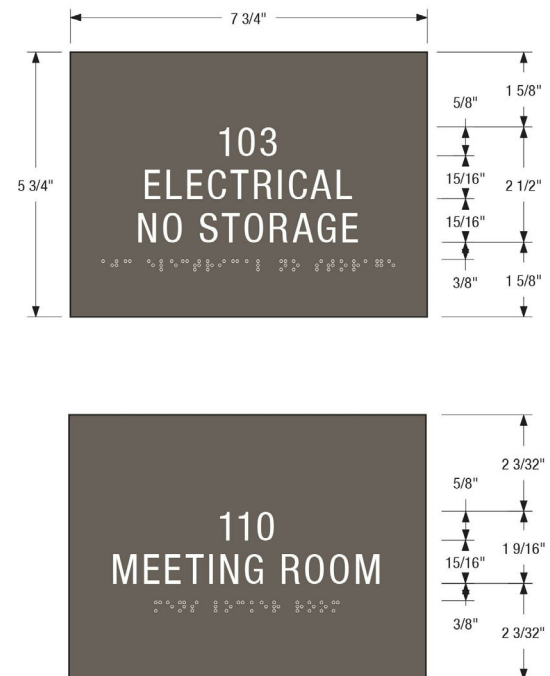
TYPICAL LOCKER ROOM SIGN
SCALE: 1/8"
Sign Type: Locker Room Sign (LR)
Basic Sign System Product ID: B10x8
Font: Helvetica Neue Condensed 27
Photogram: 4"
Rule: .125"
Cap Height: .625"
Line Spacing: 150% (.8375")
Tactile Lettering: 1/32" Raised, Matte Non Glare Modified Acrylic, White Color Remark (311-201)
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Drift Wood Color Remark (341-595)
Mount to Wall: Thick Double Sided Foam Tape & Silicone As Needed



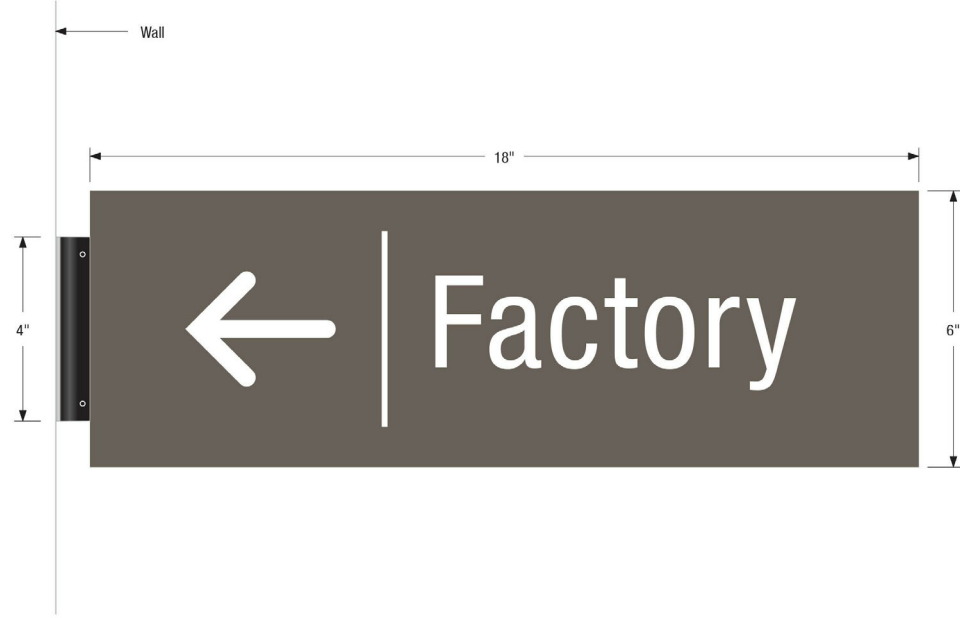
TYPICAL RESTROOM ROOM SIGN
SCALE: 1/8"
Sign Type: Restroom Room (RR)
Basic Sign System Product ID: B10x8
Font: Helvetica Neue Condensed 27
Photogram: 4"
Rule: .125"
Cap Height: .625"
Line Spacing: 150% (.8375")
Tactile Lettering: 1/32" Raised, Matte Non Glare Modified Acrylic, White Color Remark (311-201)
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Drift Wood Color Remark (341-595)
Mount to Wall: Thick Double Sided Foam Tape & Silicone As Needed



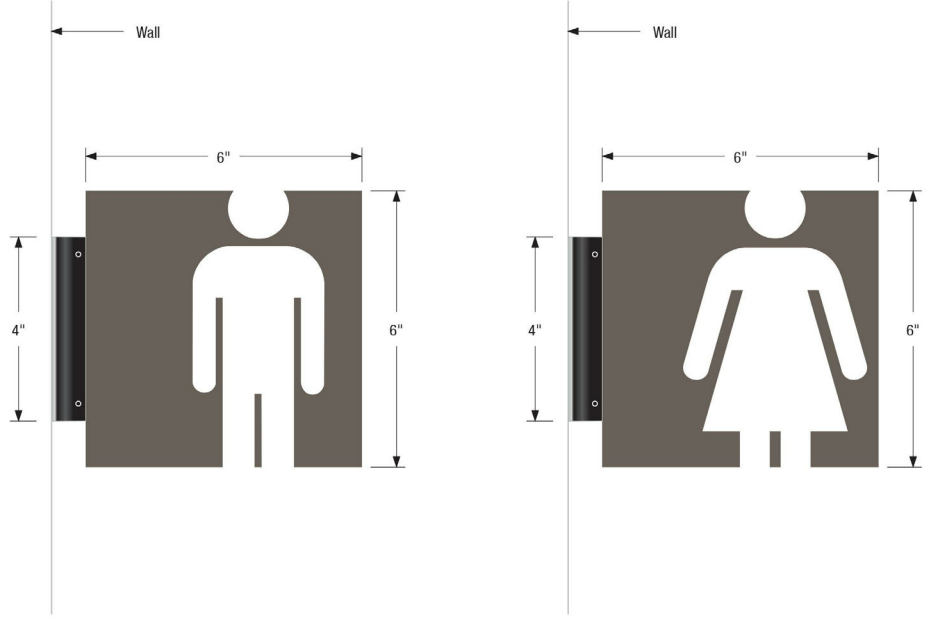
TYPICAL LACTATION ROOM SIGN
SCALE: 1/8"
Sign Type: Lactation Room (MR)
Basic Sign System Product ID: B10x8
Font: Helvetica Neue Condensed 27
Photogram: 4"
Rule: .125"
Cap Height: .625"
Line Spacing: 150% (.8375")
Tactile Lettering: 1/32" Raised, Matte Non Glare Modified Acrylic, White Color Remark (311-201)
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Drift Wood Color Remark (341-595)
Mount to Wall: Thick Double Sided Foam Tape & Silicone As Needed



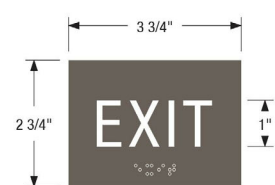
ROOM SIGNS
SCALE: 1/8"
Sign Type: Room Sign (RS)
Basic Sign System Product ID: B6x8
Font: Helvetica Neue Condensed 27
Cap Height: .625"
Line Spacing: 150% (.8375")
Tactile Lettering: 1/32" Raised, Matte Non Glare Modified Acrylic, White Color Remark (311-201)
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Drift Wood Color Remark (341-595)



FLAG MOUNTED DIRECTIONAL
SCALE: 1/8"
Sign Type: Directional Flag (DRL-F1)
Basic Sign System Product ID: B6x18-F
Font: Helvetica Neue Condensed 27
Arrow: 2.5"
Rule: .125"
Cap Height: .2"
Direct To Substrate Digital Printed Graphic: Color White to Match Remark (311-201)
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Drift Wood Color Remark (341-595)
Mount to Wall: Black Matte Flag Mount Bracket, JRS PH72



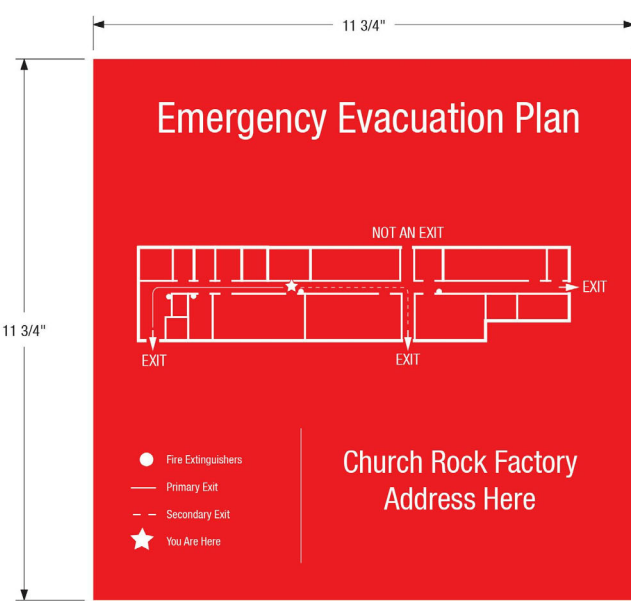
FLAG MOUNTED LOCKER ID
SCALE: 1/8"
Sign Type: Directional Flag (DRL-F2)
Basic Sign System Product ID: B6x8-F
Photogram: 2"
Direct To Substrate Digital Printed Graphic: Color White to Match Remark (311-201)
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Drift Wood Color Remark (341-595)
Mount to Wall: Black Matte Flag Mount Bracket, JRS PH72



TYPICAL TACTILE EXIT SIGN
SCALE: 1/8"
Sign Type: EMERGENCY EXIT SIGN (EE)
Basic Sign System Product ID: B3x4
Font: Helvetica Neue Condensed 27
Cap Height: 1"
Tactile Lettering: 1/32" Raised, Matte Non Glare Modified Acrylic, White Color Remark (311-201)
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Drift Wood Color Remark (341-595)
Mount to Wall: Thick Double Sided Foam Tape & Silicone As Needed



ROOM SIGNS
SCALE: 1/8"
Sign Type: Room Sign (RS)
Basic Sign System Product ID: B6x8
Font: Helvetica Neue Condensed 27
Cap Height: .625"
Line Spacing: 150% (.8375")
Tactile Lettering: 1/32" Raised, Matte Non Glare Modified Acrylic, White Color Remark (311-201)
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Drift Wood Color Remark (341-595)
Braille: NA



LIFE SAFETY EVACUATION DIAGRAM SIGN
SCALE: 1/8"
Sign Type: Evacuation Map (EVAC)
Font: Helvetica Neue Condensed 27
Direct To Substrate Digital Printed Graphic: Color White
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Red Color Remark (341-601)
Mount to Wall: 1/16" Thick Double Sided Foam Tape and Silicone As Needed



FDC SIGN
SCALE: 1/8"
Sign Type: FDC
Font: Helvetica Neue Condensed 75 Bold
Cap Height: 6"
Direct To Substrate Digital Printed Graphic: Color Red (CMYK 0 - 100 - 100 - 0)
Sign Face: .080" Aluminum, with Reflective Sheeting 3M 4995 White
Mount to Wall: Mechanical Fasteners

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022
OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC
8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

NOT FOR CONSTRUCTION

ARCHITECT

MARK	DATE	DESCRIPTION
	MARCH 25, 2022	

PROJECT NUMBER: 2020.017
DRAWING FILE:
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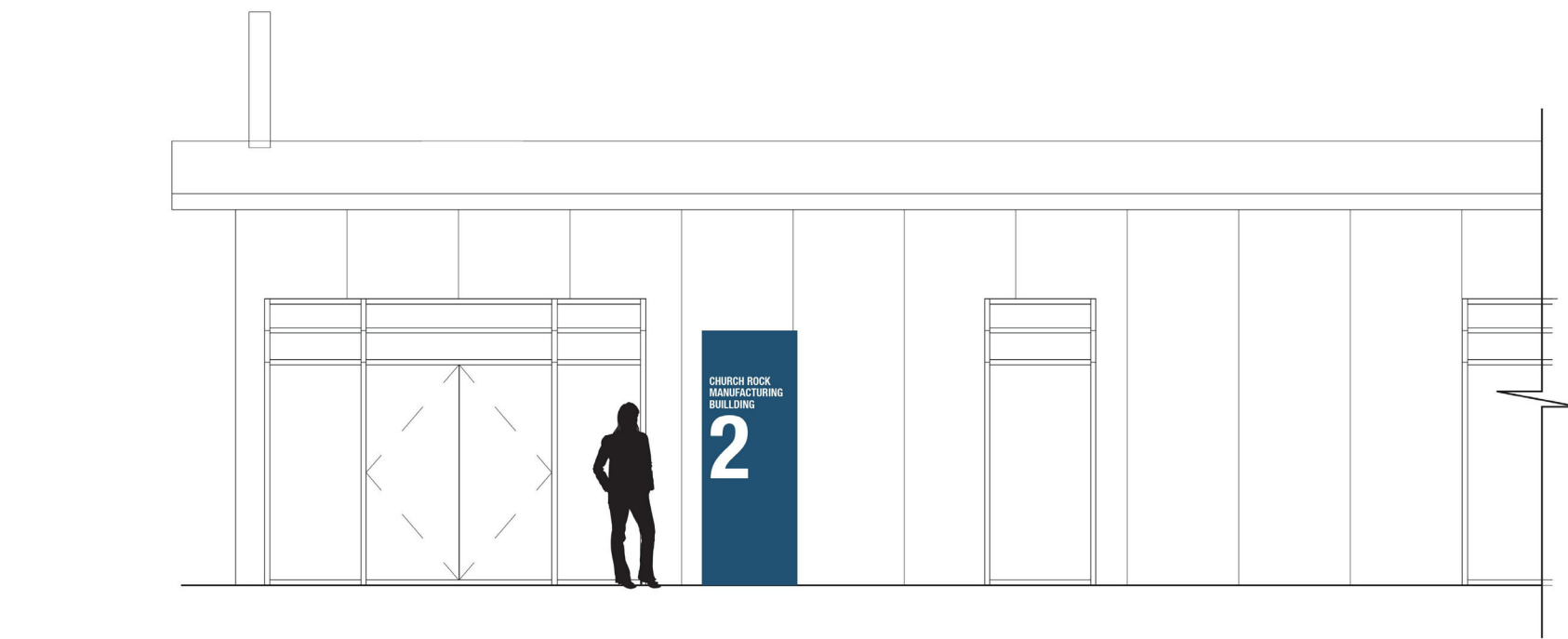
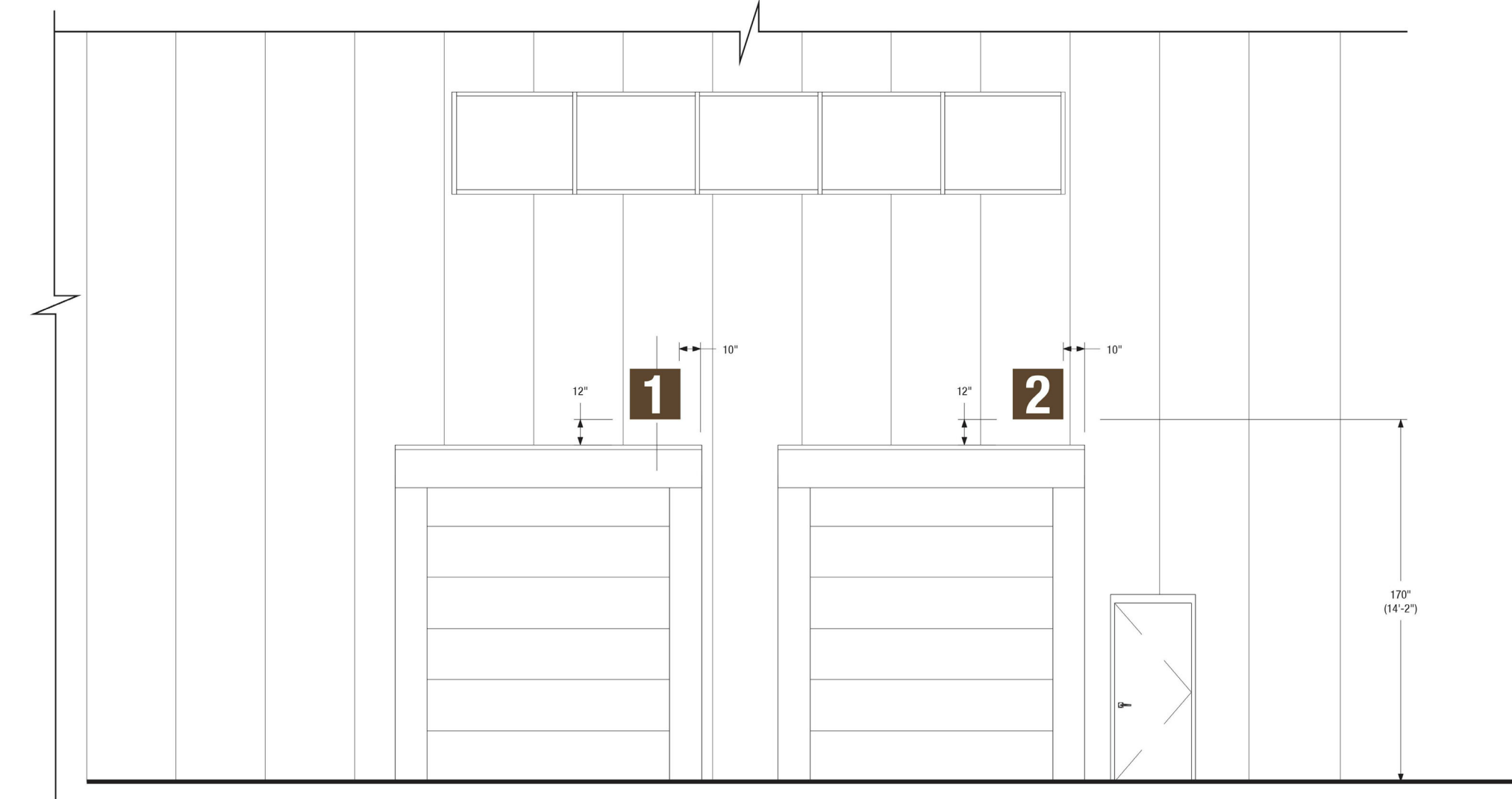
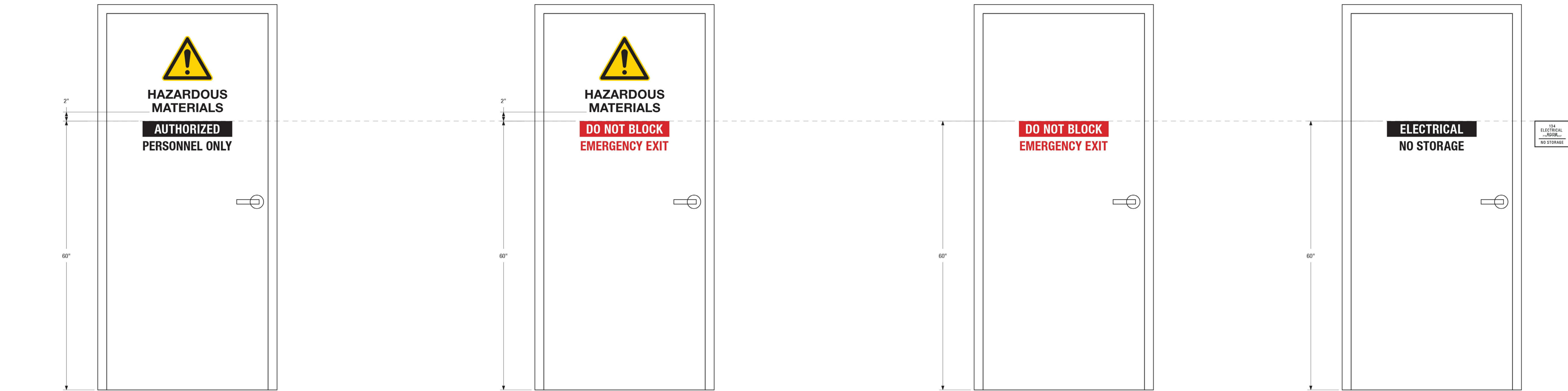
SHEET TITLE

SIGNAGE

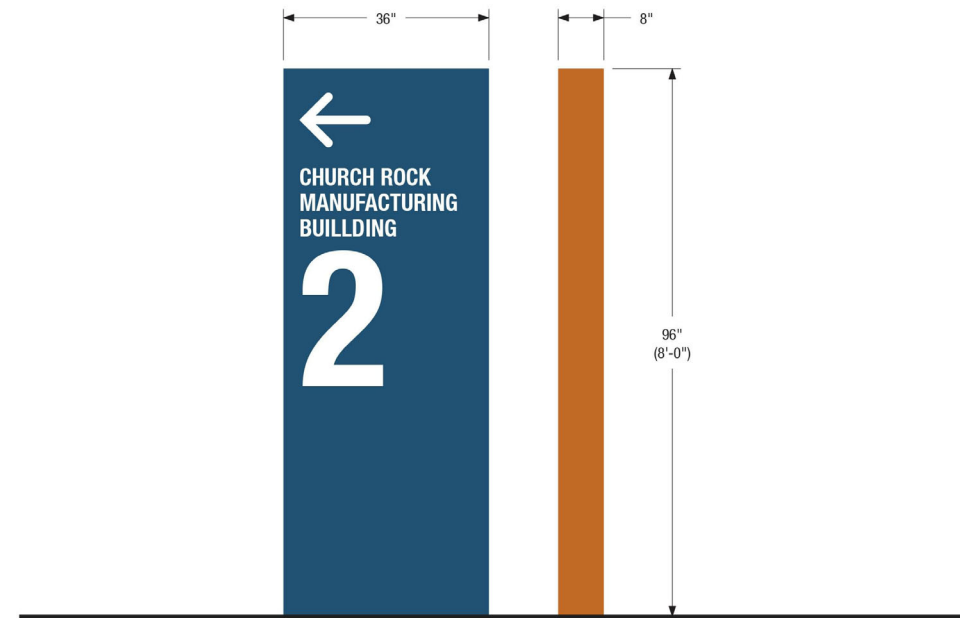
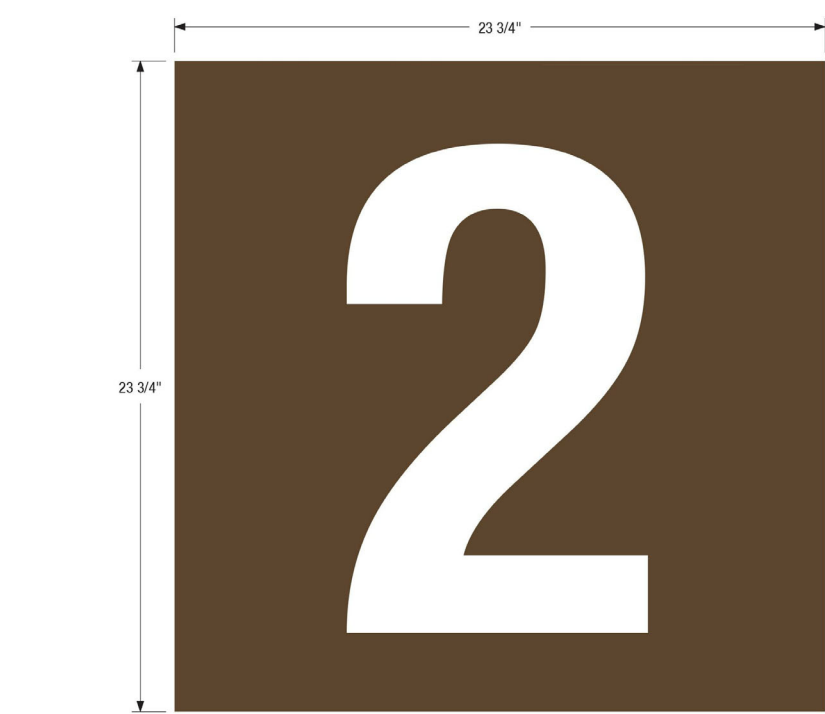
SHEET NUMBER

A-403

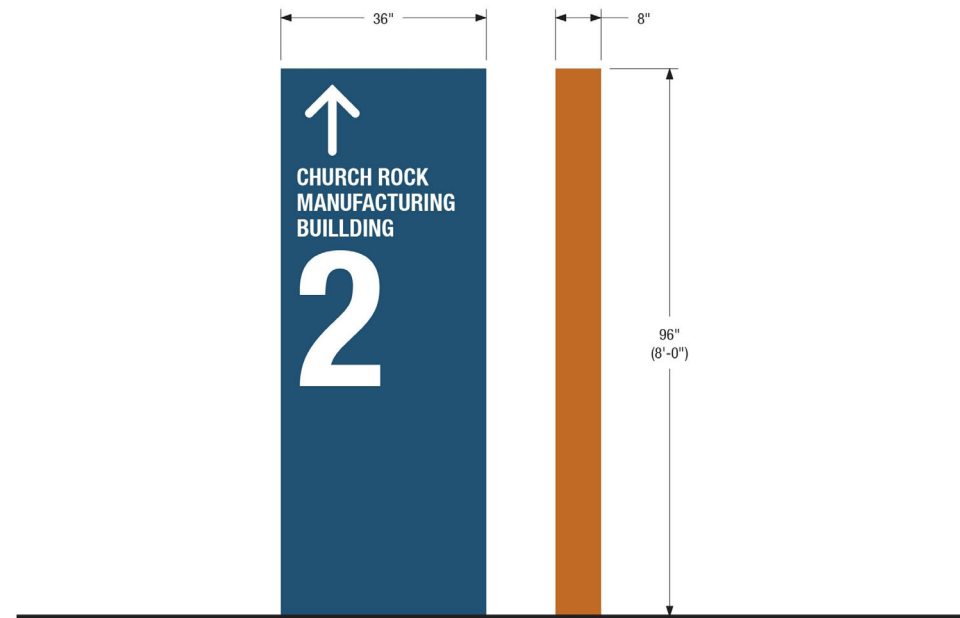
Sequence of



A ROOM SIGNS
S&S 112
Sign Type: Room Sign (RS)
Basic Sign System Product ID: B&S
Font: Helvetica Neue Condensed 57
Cap Height: 625"
Line Spacing: 150% (9275")
Tactile Lettering: 132" Raised, Matte Non Glare Modified Acrylic, White Color Romark (311-201)
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Drift Wood Color Romark (341-595)
Braille: NA



A ROOM SIGNS
S&S 112
Sign Type: Room Sign (RS)
Basic Sign System Product ID: B&S
Font: Helvetica Neue Condensed 57
Cap Height: 625"
Line Spacing: 150% (9275")
Tactile Lettering: 132" Raised, Matte Non Glare Modified Acrylic, White Color Romark (311-201)
Sign Face: 1/8" Thick, Matte Non Glare Modified Acrylic, Drift Wood Color Romark (341-595)
Braille: NA



CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022
OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC
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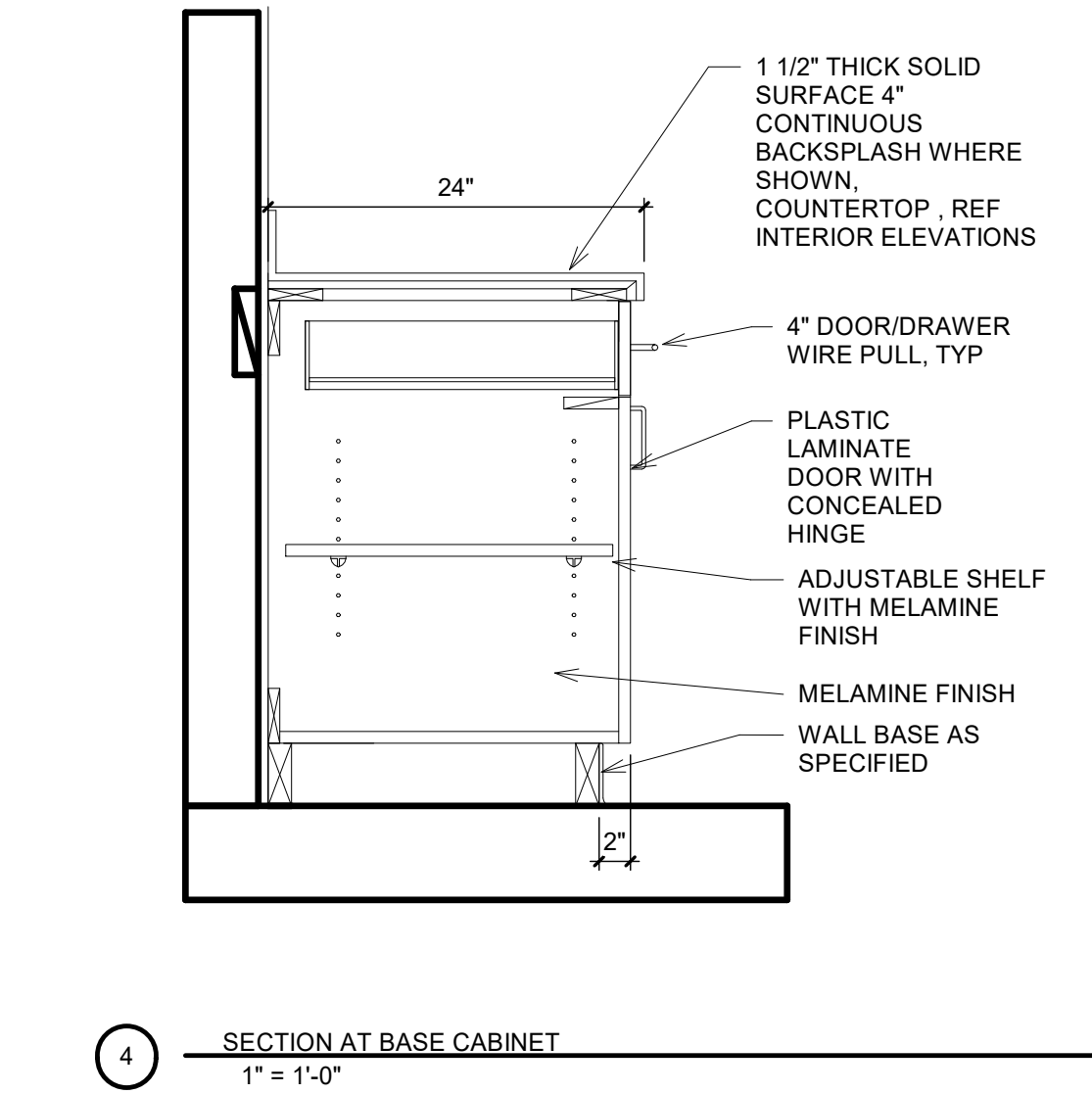
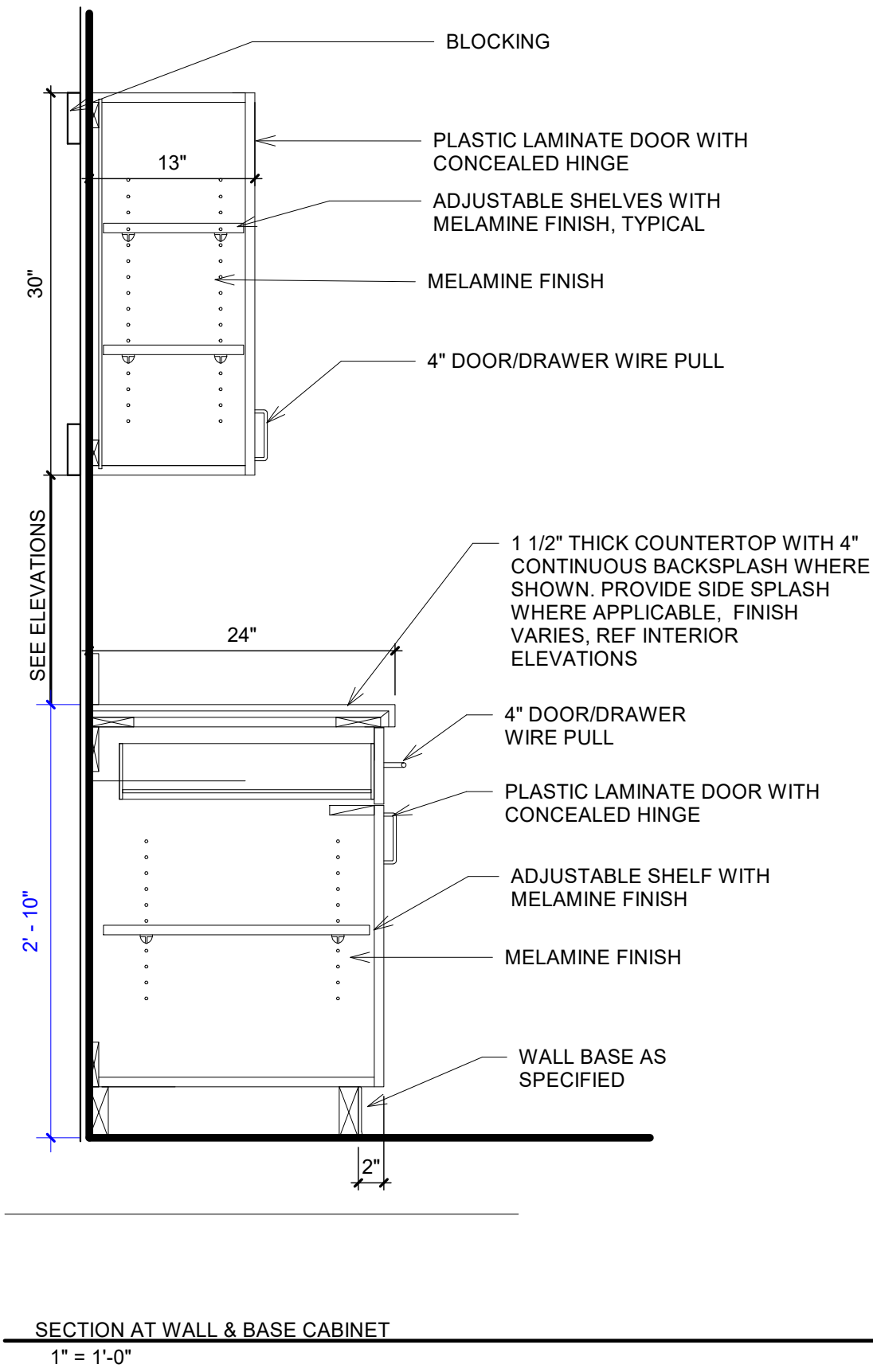
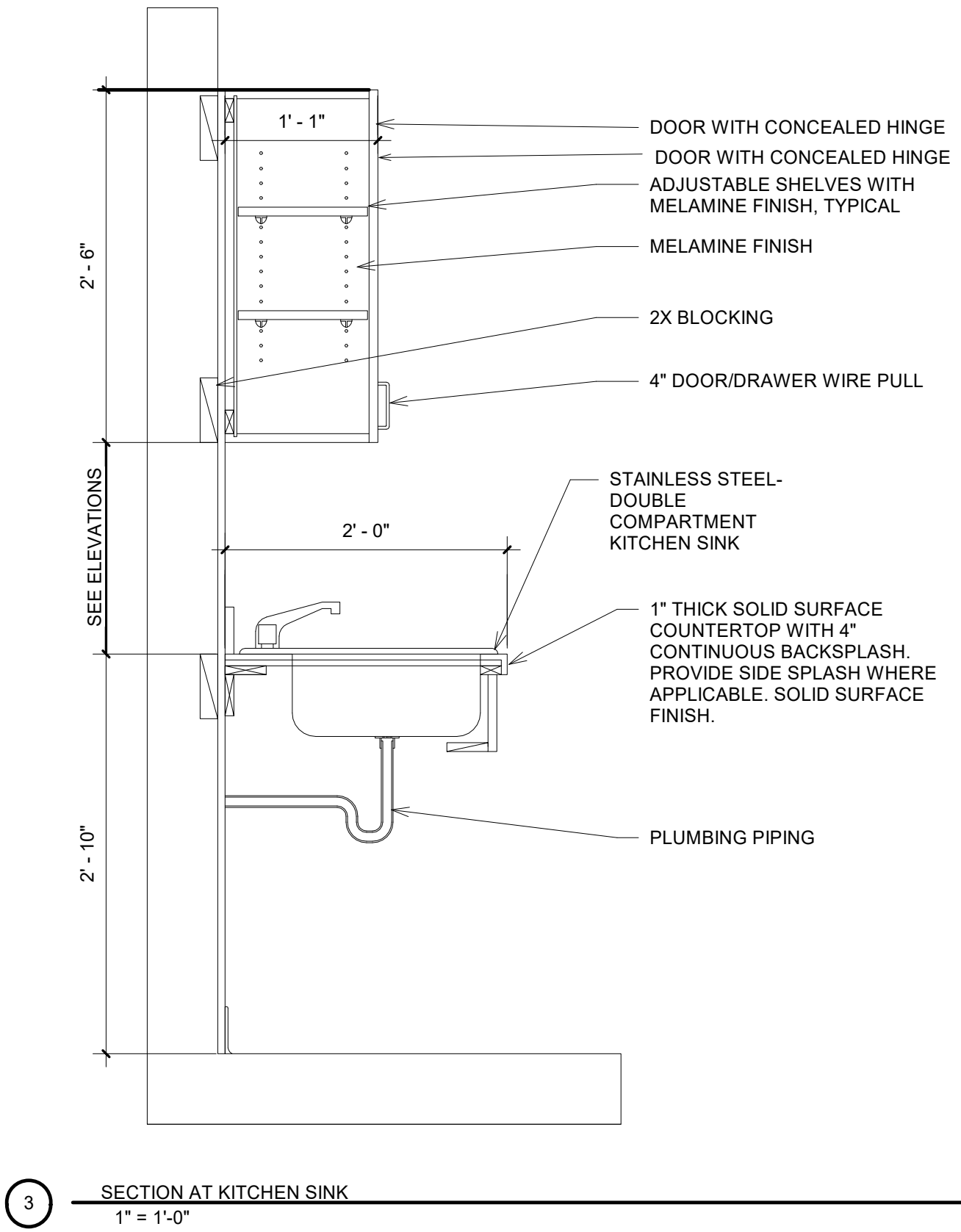
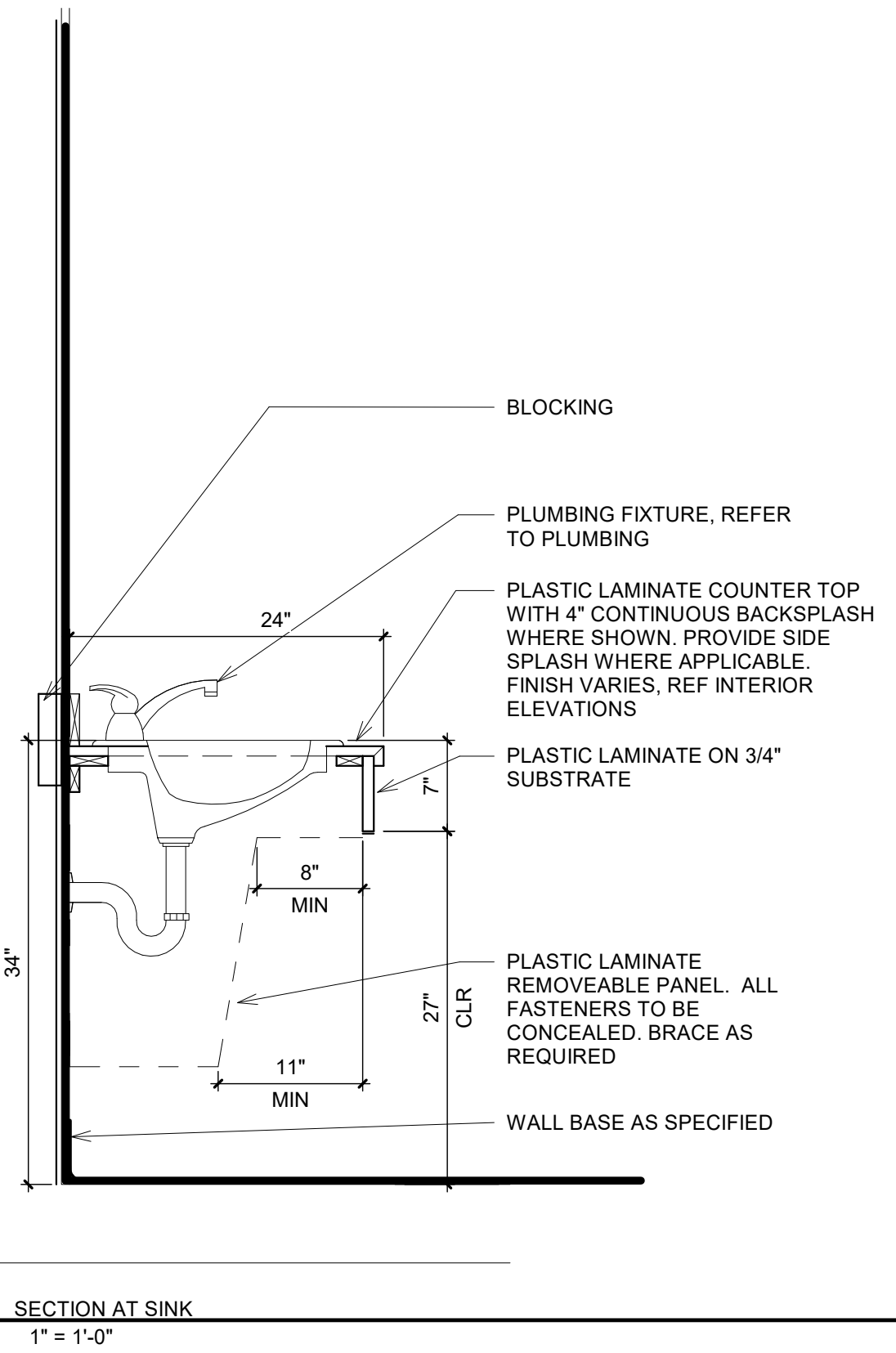
MARK	DATE	DESCRIPTION
	MARCH 25, 2022	

PROJECT NUMBER: 2020.017
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SHEET TITLE
SIGNAGE

SHEET NUMBER
A-404
Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory/ARCH_1.rvt



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022
OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC

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Albuquerque, NM 87110
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	MARCH 25, 2022	

PROJECT NUMBER: 2020.017
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SHEET TITLE

MILLWORK

SHEET NUMBER

A-501

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt

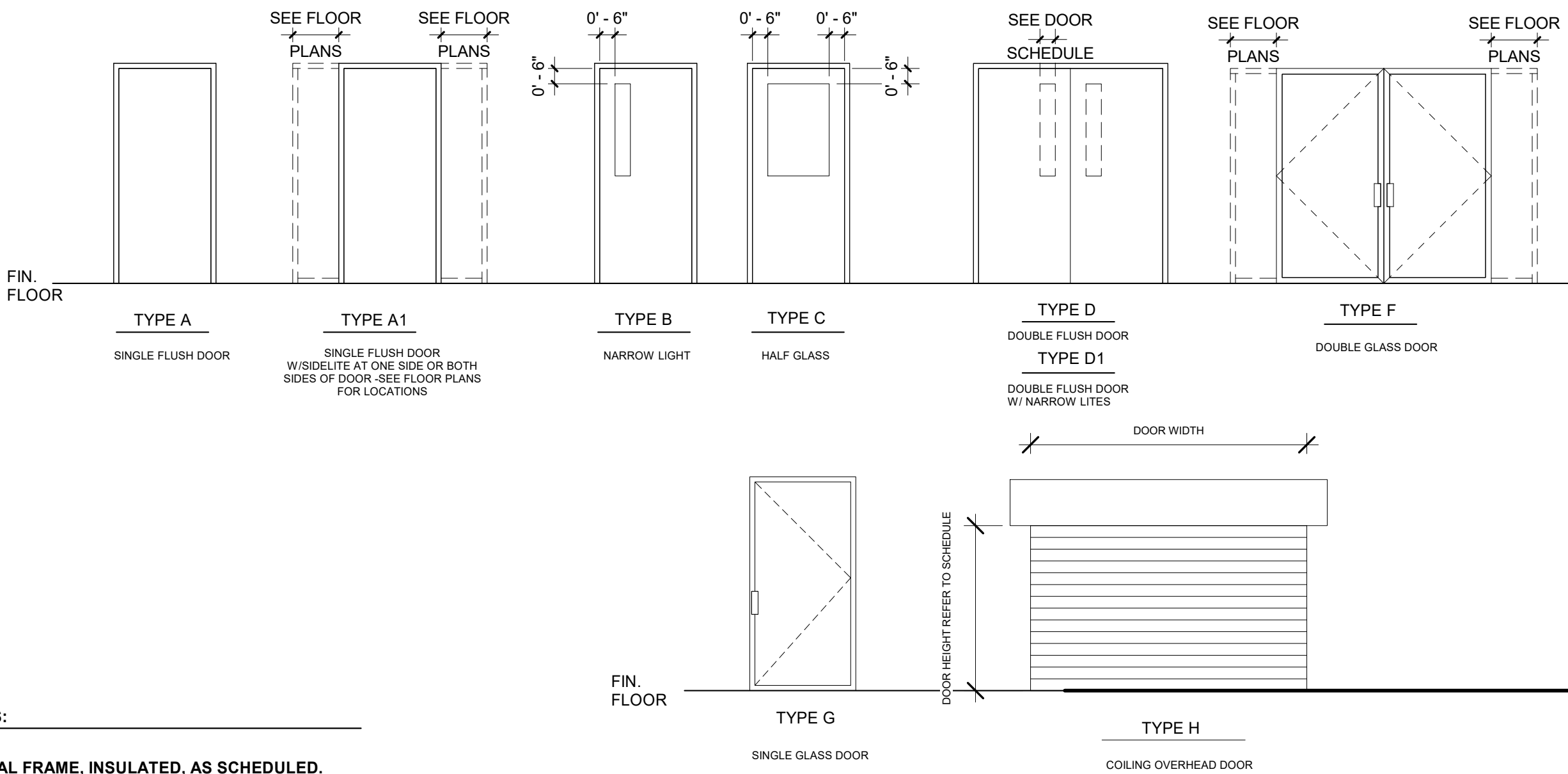
GENERAL NOTES

1. IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
2. XX

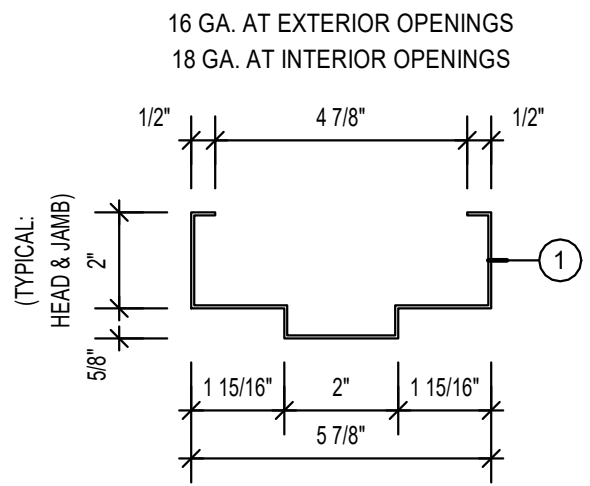
REFERENCE KEYNOTES

DOOR SCHEDULE																
DOOR NO.	DOOR IDENTIFICATION			DOOR CONSTRUCTION		FRAME CONSTRUCTION		DOOR / FRAME DETAILS			Fire Rating	GLAZING TYPE	HARDWARE SET	SIGNAGE	COMMENTS	
	PAIR/SINGLE	SIZE		DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD	JAMB						SILL
100A	SINGLE	2'-8"	6'-9"	G	GL	G	ALUM.						01		ACCESS CONTROL	
101A	PAIR	5'-10"	6'-9"	F	GL	F	ALUM.						02			
102A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						03			
103A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						04			
105A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						04			
106A	SINGLE	3'-0"	7'-0"	B	WD	B	HM						05			
106B	SINGLE	3'-0"	7'-0"	B	WD	B	HM						05			
107A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						06			
108A	SINGLE	3'-0"	7'-0"	B	WD	B	HM						07			
108B	SINGLE	3'-0"	7'-0"	B	WD	B	HM						07			
109A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						08		ACCESS CONTROL	
110A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						09		ACCESS CONTROL	
110B	SINGLE	3'-0"	7'-0"	A	WD	A	HM						08		ACCESS CONTROL	
111A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						09		ACCESS CONTROL	
112A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						09		ACCESS CONTROL	
113A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						05			
114A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						03			
115A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						09		ACCESS CONTROL	
116A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						10			
117A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						11			
118A	SINGLE	3'-0"	7'-0"	B	WD	B	HM						09		ACCESS CONTROL	
119A	SINGLE	3'-0"	7'-0"	B	WD	B	HM						12		ACCESS CONTROL	
119B	SINGLE	3'-0"	7'-0"	B	WD	B	HM						13			
120A	SINGLE	3'-0"	7'-0"	B	WD	B	HM						09		ACCESS CONTROL	
121A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						09		ACCESS CONTROL	
122A	SINGLE	3'-0"	7'-0"	A	HM	A	HM						14			
123A	SINGLE	3'-0"	7'-0"	A	HM	A	HM						15			
123B	SINGLE	10'-0"	12'-0"	H		H							16			
123C	SINGLE	10'-0"	12'-0"	H		H							16			
123D	SINGLE	3'-0"	7'-0"	A	HM	A	HM						15			
124A		3'-0"	7'-0"													
125A	SINGLE	8'-0"	10'-0"	H		H							16			
125B	SINGLE	8'-0"	10'-0"	H		H							16			
125C	SINGLE	3'-0"	7'-0"	C	WD	C	HM						17			
125D	SINGLE	8'-0"	10'-0"	H		H							16			
125E	SINGLE	3'-0"	7'-0"	A	HM	A	HM						15			
125F	SINGLE	3'-0"	7'-0"	A	HM	A	HM						15			
125G	SINGLE	3'-0"	7'-0"	A	WD	A	HM						15			
125H	SINGLE	3'-0"	7'-0"	A	WD	A	HM						15			
125I	SINGLE	3'-0"	7'-0"	A	WD	A	HM						15			
125J	SINGLE	3'-0"	7'-0"	A	WD	A	HM						15			
125K		3'-0"	7'-0"													
126A	PAIR	6'-0"	7'-0"	D1	WD	D1	HM						18		ACCESS CONTROL	
126B	SINGLE	3'-0"	7'-0"	C	WD	C	HM						19		ACCESS CONTROL	
126C	PAIR	6'-0"	7'-0"	D1	WD	D1	HM						18		ACCESS CONTROL	
127A	SINGLE	4'-0"	8'-0"	H		H							16			
128A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						20			
128A	SINGLE	3'-0"	7'-0"	C	WD	C	HM						17			
128B	SINGLE	8'-0"	10'-0"	H		H							16			
128C	SINGLE	3'-0"	7'-0"	C	WD	C	HM						17			
130A	SINGLE	3'-0"	7'-0"	A	HM	A	HM						15			
131A	SINGLE	3'-0"	7'-0"	A	HM	A	HM						15			
131B	SINGLE	3'-0"	7'-0"	A	HM	A	HM						15			
131C	SINGLE	3'-0"	7'-0"	A	HM	A	HM						15			
131D	SINGLE	3'-0"	7'-0"	C	WD	C	HM						17			
131E	SINGLE	8'-0"	10'-0"	H		H							16			
131F	SINGLE	10'-0"	12'-0"	H		H							16			
134A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						21			
134B	SINGLE	3'-0"	7'-0"	A	HM	A	HM						22			
135A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						03			
136A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						03			
137A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						21			
137B	SINGLE	3'-0"	7'-0"	A	WD	A	HM						21			
137C	SINGLE	3'-0"	7'-0"	A	HM	A	HM						22			
137D	SINGLE	3'-0"	7'-0"	A	HM	A	HM						22			
137E	SINGLE	8'-0"	10'-0"	H		H							16			
138A	SINGLE	3'-0"	7'-0"	A	WD	A	HM						21			
138B	SINGLE	3'-0"	7'-0"	A	WD	A	HM						21			
138C	SINGLE	3'-0"	7'-0"	A	HM	A	HM						15			
138D	SINGLE	3'-0"	7'-0"	A	HM	A	HM						15			
138E	SINGLE	8'-0"	10'-0"	H		H							16			
138F	SINGLE	6'-0"	10'-0"	H		H							16			

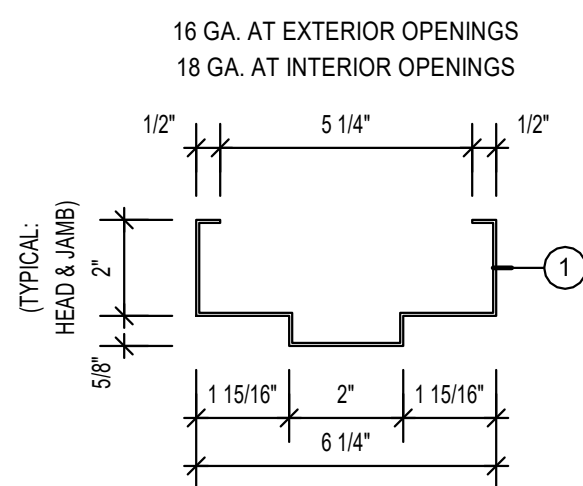
DOOR TYPES & FRAMES



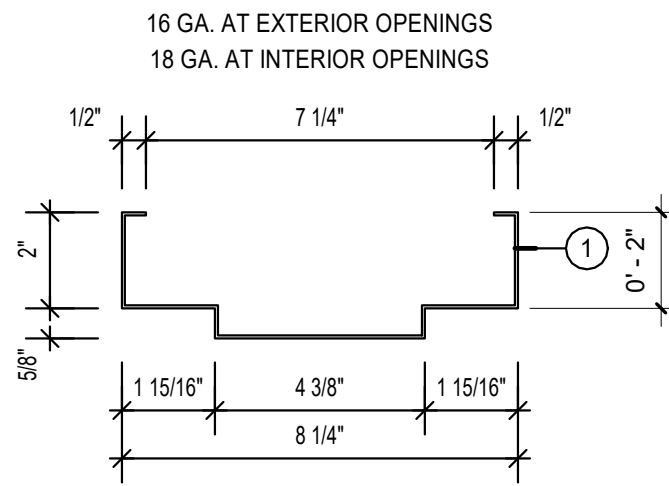
- 00 KEYED NOTES:
- HOLLOW METAL FRAME, INSULATED, AS SCHEDULED.
 - PROVIDE ANCHORS AS REQUIRED.
 - DOOR, AS SCHEDULED.
 - 5/8" TYPE 'X' GYPSUM BOARD, AS SCHEDULED.
 - 4" STUD FRAMING.
 - SHIM AS REQUIRED.
 - CONTINUOUS SEALANT.
 - 6" STUD FRAMING.



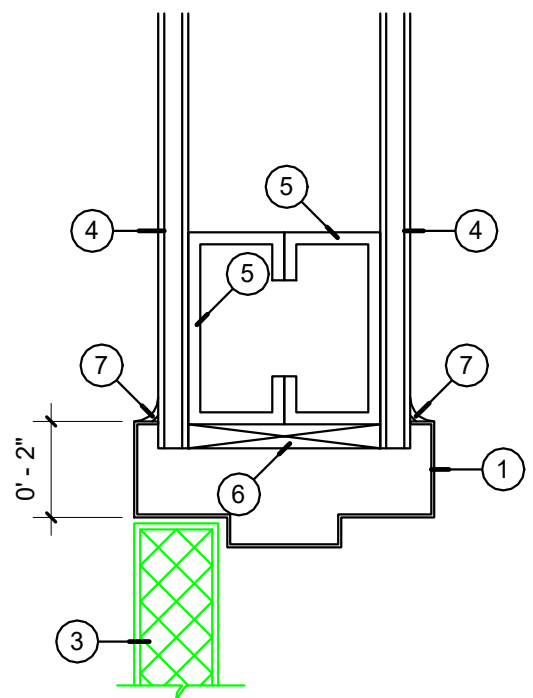
1 3 5/8" STUD FRAMED WALL



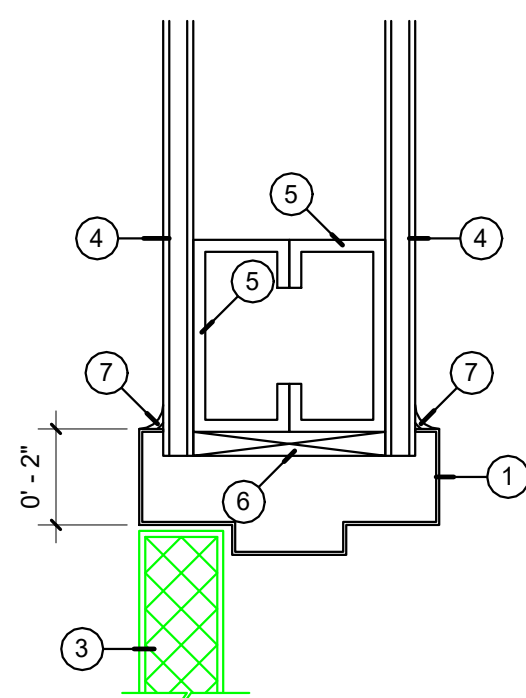
1 4" STUD FRAMED WALL



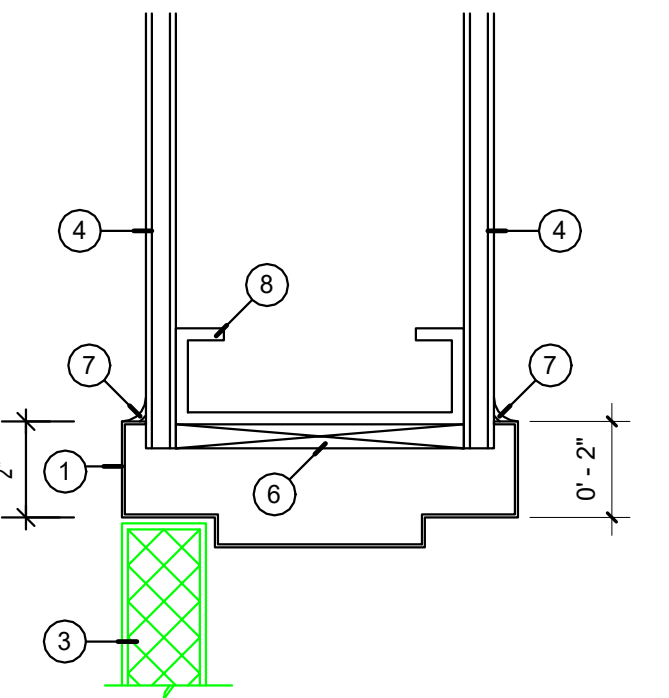
2 6" STUD FRAMED WALL



3 HEAD / JAMB
Scale: 3"=1'-0"



3 HEAD / JAMB
Scale: 3"=1'-0"



4 HEAD / JAMB (INT.)
Scale: 3"=1'-0"

1 HEAD AND JAMB DETAILS
3" = 1'-0"

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

NOT FOR
CONSTRUCTION

ARCHITECT

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	MARCH 25, 2022	

PROJECT NUMBER: 2020.017
DRAWING FILE:
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CHECKED BY: Checker
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SHEET TITLE

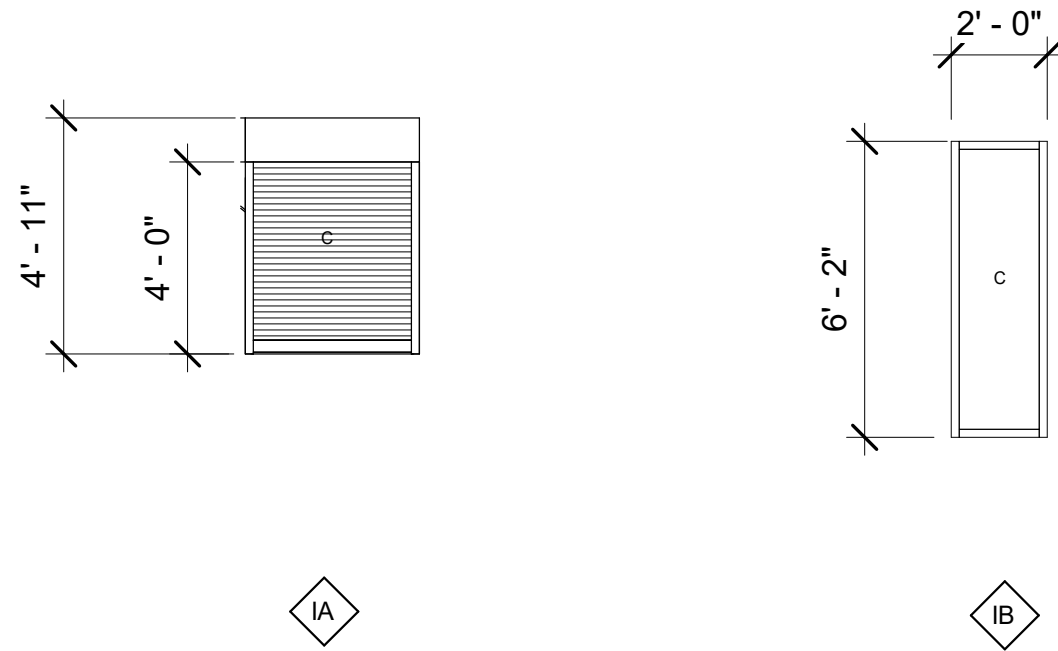
DOOR SCHEDULE

SHEET NUMBER

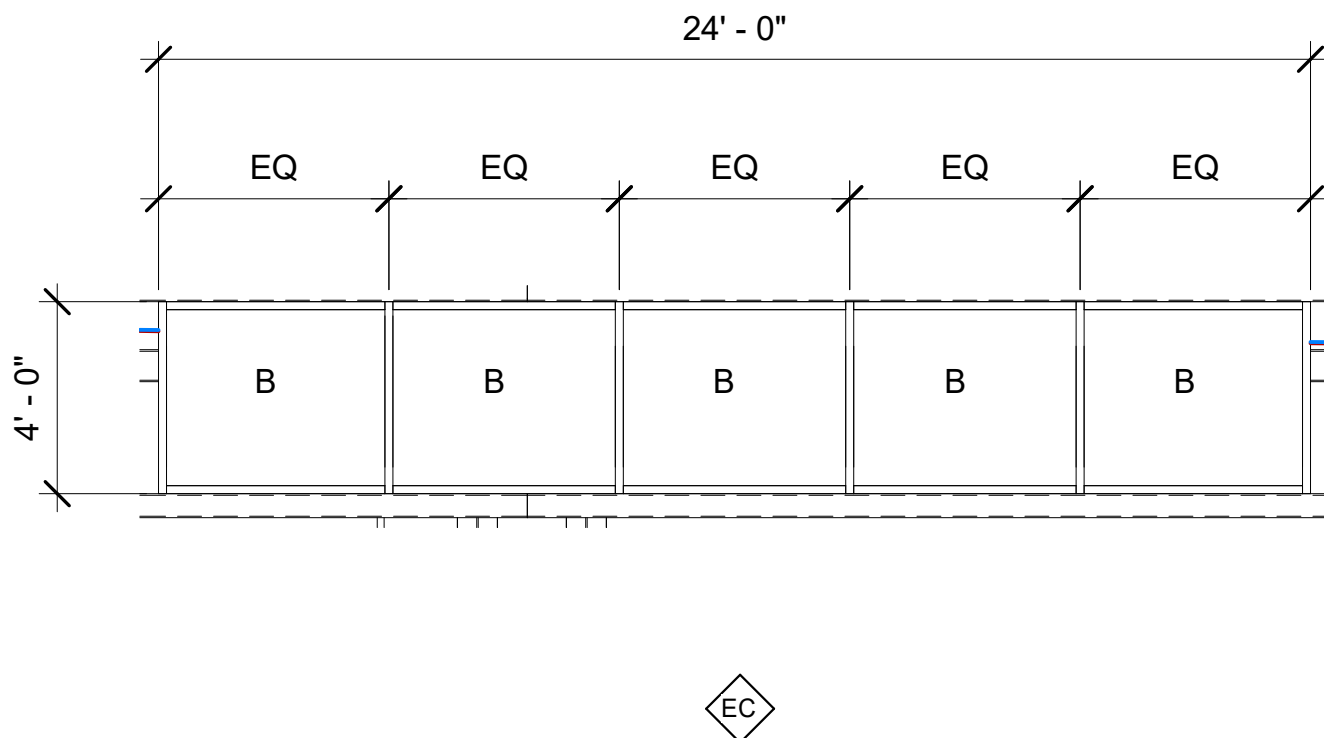
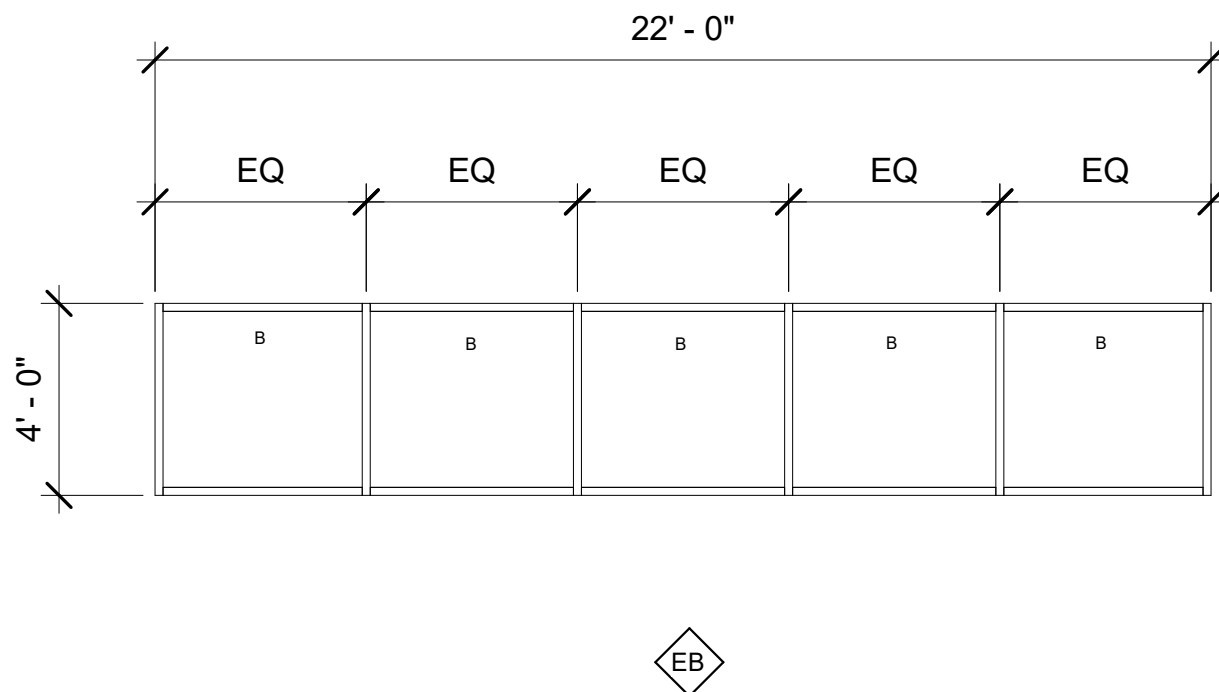
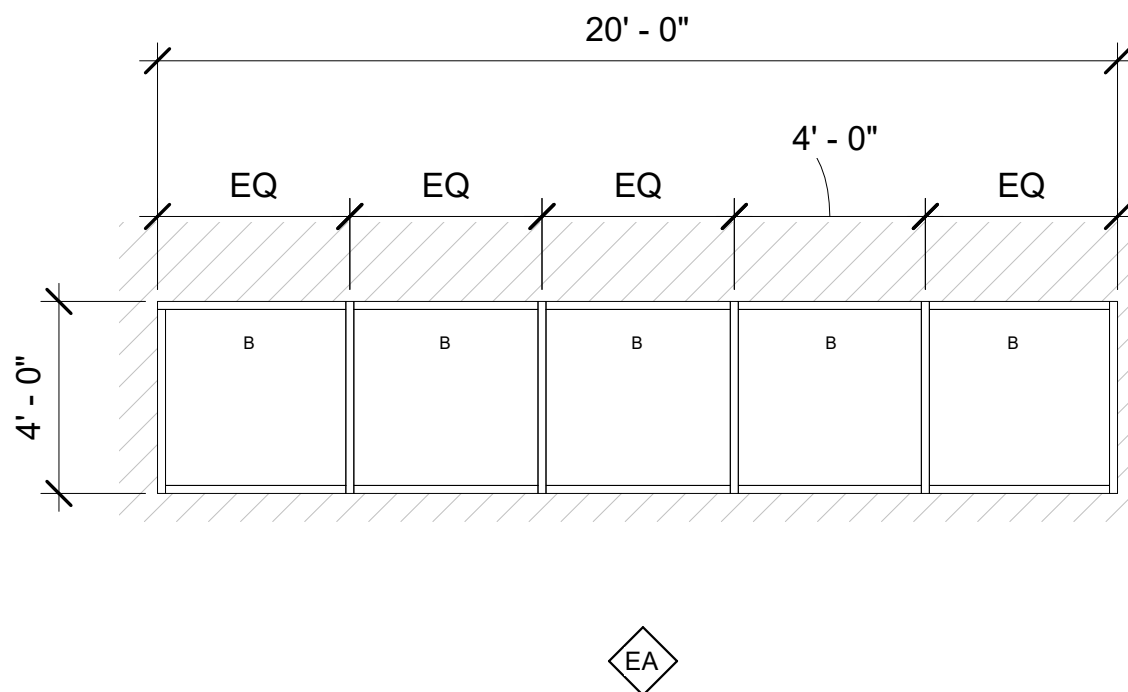
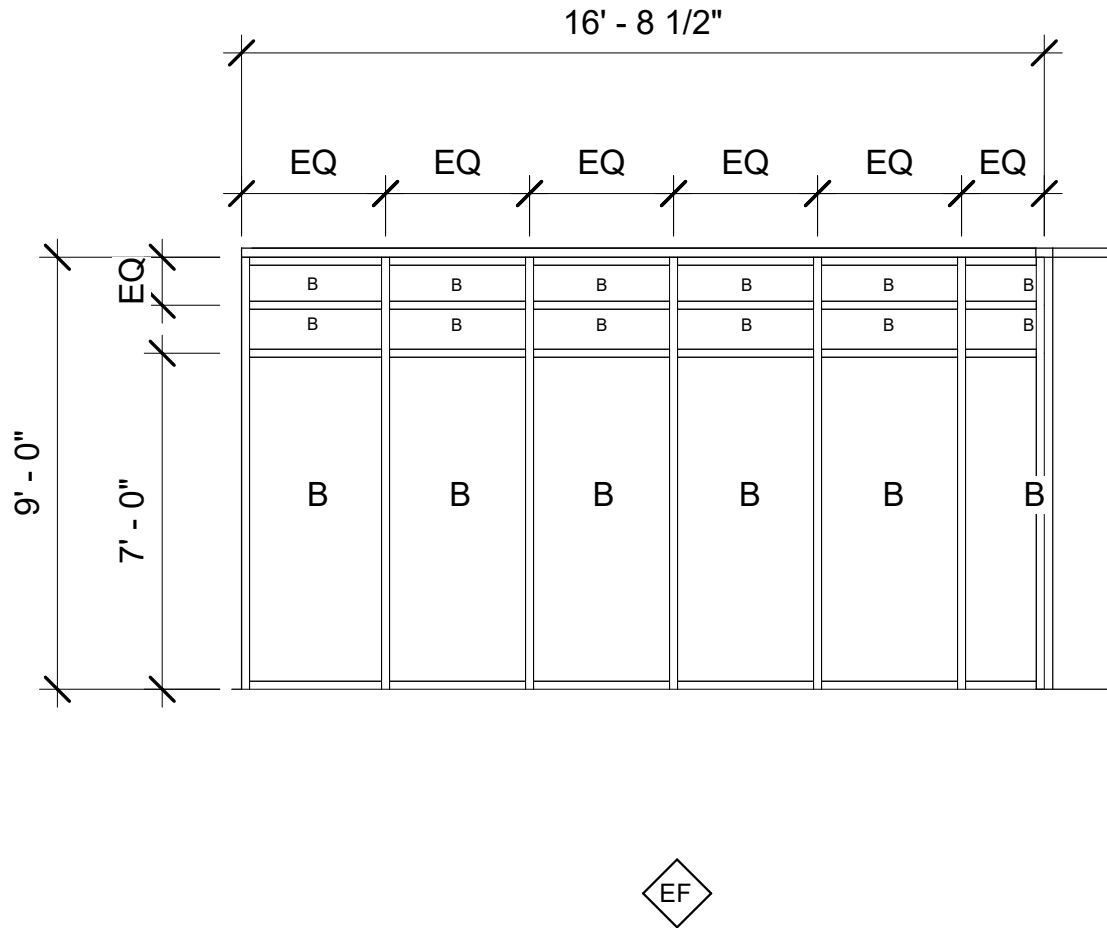
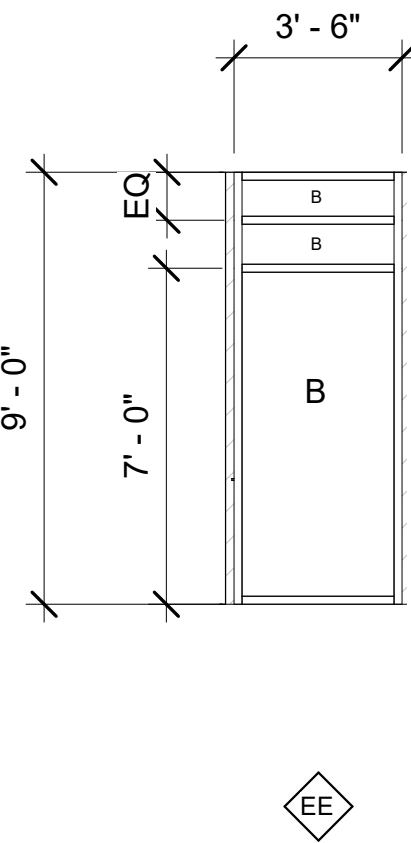
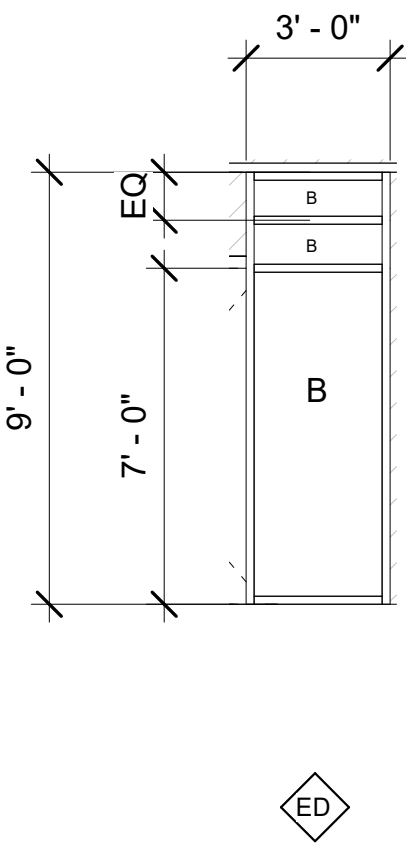
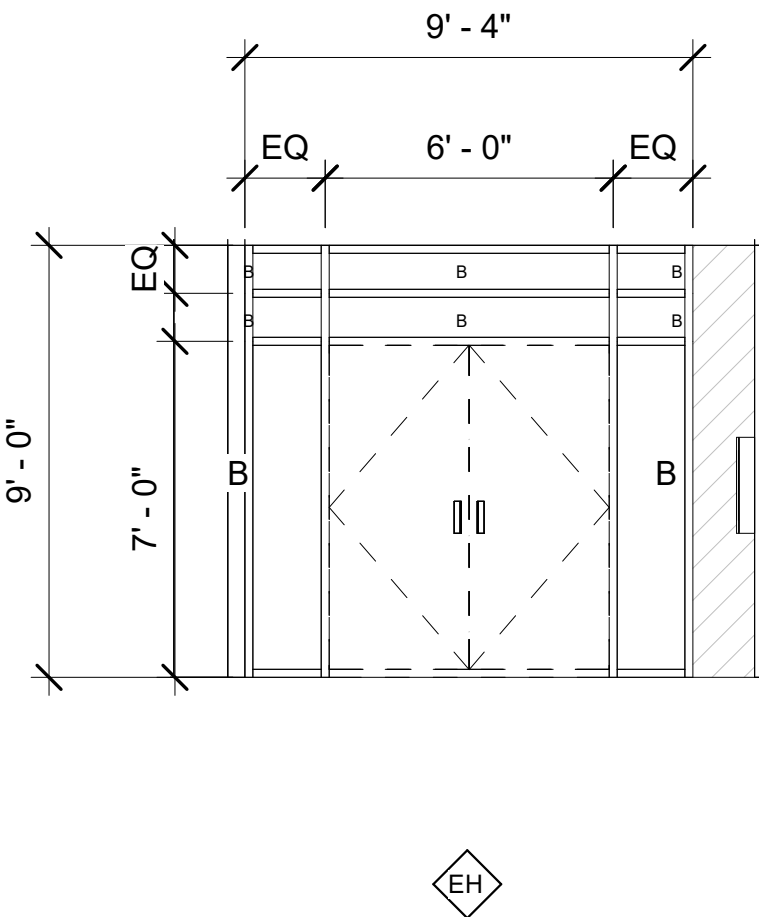
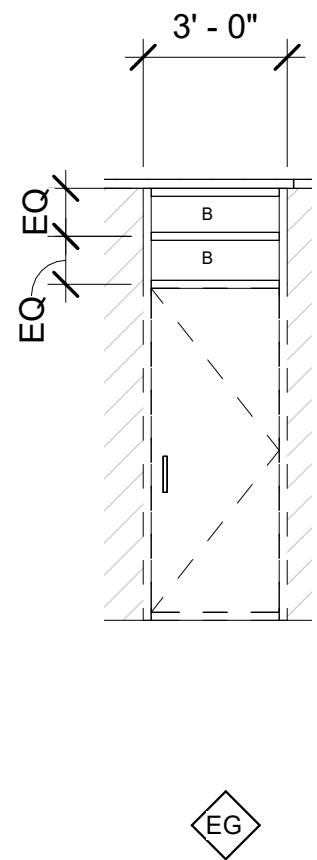
A-601

Sequence of

BIM 360/Church Rock Phase II Factory/CR Factory ARCH_1.rvt



E1 INTERIOR OPENING TYPES
1/4" = 1'-0"



A1 EXTERIOR OPENING TYPES
1/4" = 1'-0"

GLAZING LEGEND	
Type Mark	Description
A	1" INSULATED GLAZING
B	1" INSULATED GLAZING TEMPERED
C	1/4" CLEAR FLOAT TEMPERED

GENERAL NOTES

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
CONSTRUCTION DOCUMENTS
MARCH 25, 2022
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CONSULTANT INFO & LOGO

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PROJECT NUMBER: 2020.017
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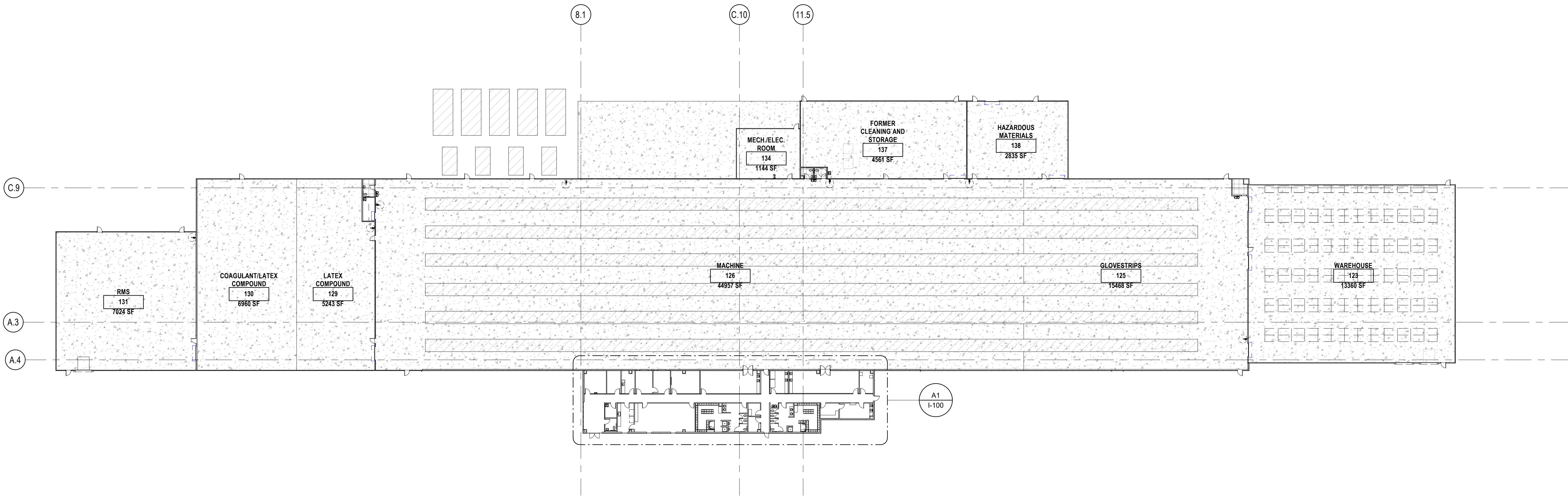
OPENING TYPES

SHEET NUMBER

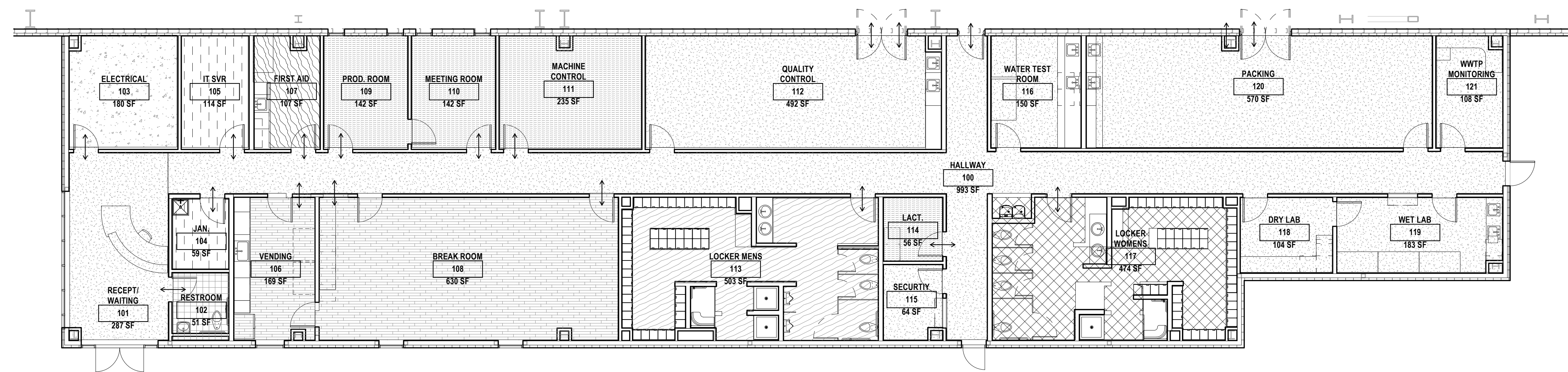
A-603

Sequence of

BIM 360://Church Rock Phase II Factory/CR Factory ARCH_1.rvt



D1 FINISH FLOOR PLAN
1/32" = 1'-0"



A1 FINISH FLOOR - PLAN AREA G ADMINISTRATION
1/8" = 1'-0"

LEGEND

←→ TRANSITION STRIP

MANNINGTON
COMMERICAL CARPET
TILE - MOSO ACORN

SEALED CONCRETE

DAVIDS COLOR
CONCRETE - SAN DIEGO
BLUFF

AZ TILE - SHIBUSA
CREMA

AZ TILE - METALWOOD
ARGENTO

AZ TILE - DAVENPORT ICE

MANNINGTON COMMERICAL
LVT- UNINTERRUPTED
RUSSET MAPLE

ARMSTRONG FLOORING
VCT - MOCHACCINO

ARMSTRONG FLOORING
VCT - MID GRAYED BLUE

FINISH FLOOR PLAN LEGEND
1/8" = 1'-0"

GENERAL NOTES

- IF THIS SHEET IS NOT 30" X 42", THEN THE DRAWINGS ON IT ARE NOT TO SCALE.
- ALL DIMENSIONS ARE FACE TO STUD OR TO FACE OF MASONRY UNITS.
- ALL ANGLES ARE RIGHT ANGLES, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONFIRM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR COMMENSING WORK.
- CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
- PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIALS AS REQUIRED FOR FIRE STOPPING.
- CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION, UNLESS OTHERWISE NOTED.
- REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES, AND EQUIPMENT, AS OCCURS FOR INSTALLATION.

REFERENCE KEYNOTES

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

CONSTRUCTION DOCUMENTS

MARCH 25, 2022

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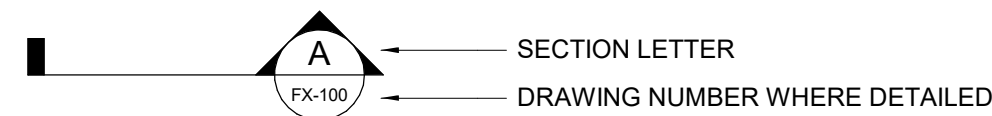
FINISH PLAN -
AREA G ADMIN
FINISH PLAN

SHEET NUMBER

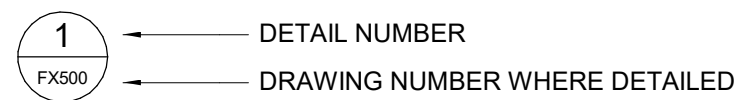
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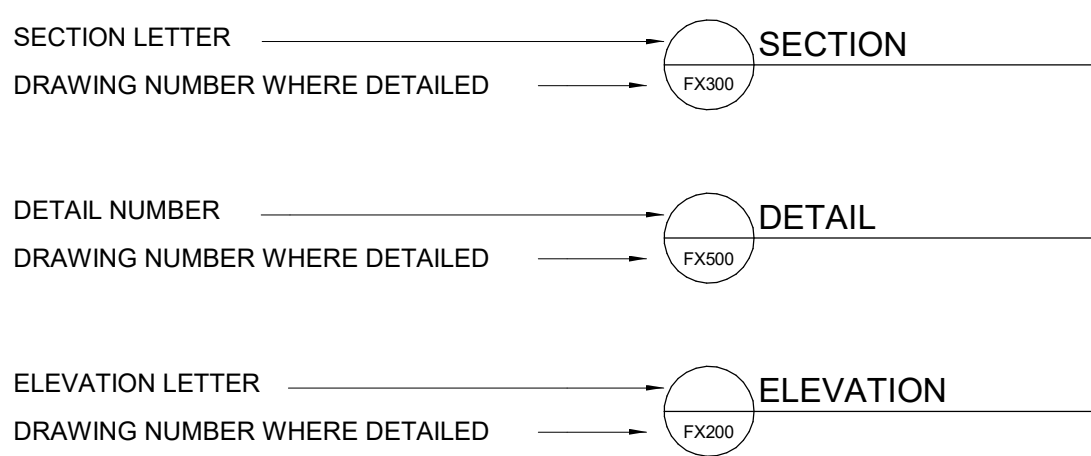
SECTION SYMBOL



DETAIL SYMBOL



SECTION, ELEVATION, AND DETAIL TITLES



SITE UTILITY SYMBOLS

DESCRIPTION	NEW	EXISTING
FIRE PROTECTION	F	EX F
POST INDICATOR VALVE	PIV	PIV
REDUCED PRESSURE BACKFLOW PREVENTER	RBP	RBP
FIRE HYDRANT	F.H.	F.H.(E)
FIRE DEPARTMENT INLET CONNECTION	F.D.C.	F.D.C.
VALVE WITH VALVE BOX	V	V
CONSTRUCTION	C	C
FENCING	F	F

FIRE FLOW DATA

TEST DATE:	XX/XX/XXXX
TEST LOCATION:	XX INCH MAIN ON SITE
WATER PRESSURE ZONE:	XX - XXXX
TEST ELEVATION:	XXXX' MSL
REQUESTED LOADING:	XXXX GPM
(IF MODELED BY THE MUNICIPALITY)	
PEAK STATIC PRESSURE:	XXX.X PSI
RESIDUAL PRESSURE:	XXX.X PSI
FLOWING GPM:	XXXX GPM
(IF NOT MODELED BY THE MUNICIPALITY)	

FIRE PROTECTION SYMBOL LEGEND

SCHEMATIC SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
XX		KEYED NOTE
XXXXXX		POINT OF CONNECTION TO EXISTING
XXXXXX		EXISTING PIPE TO BE REMOVED
XXXXXX		NEW PIPING
XXXXXX		EXISTING PIPING TO REMAIN
XXXXXX		NEW PIPE CONNECTION TO EXISTING PIPING
		DIRECTION OF FLOW
GH		DROP IN PIPE
OH		RISE IN PIPE
		TOP CONNECTION, 45° OR 90°
		BOTTOM CONNECTION, 45° OR 90°
		CAPPED OUTLET
		SIDE CONNECTION
		UNION
		FLANGED UNION
		ORIFICE UNION
		REDUCER OR INCREASER
		ECCENTRIC REDUCER
		PIPE GUIDE
		FLEXIBLE CONNECTION
		UNIVERSAL TEMPERATURE-PRESSURE FITTING (PETE'S PLUG)
		STRAINER WITH BLOWDOWN VALVE & HOSE BIBB
		PRESSURE GAUGE AND GAUGE COCK
		TEST PLUG (PRESS/TEMP)
		PENETRATION
	MAV	MANUAL AIR VENT (MAV)
	AAV	AUTOMATIC AIR VENT (AAV)
	FS/FD/AD	FLOOR SINK, FLOOR DRAIN, AREA DRAIN
		SLOPE OF PIPE
	AG	AIR GAP FITTING
	(WH) (HB)	WALL HYDRANT, HOSE BIBB
	TP	TRAP PRIMER WITH ACCESS PANEL
		WATER MOTOR GONG
		ALARM BELL
		FIRE HOSE CABINET
		FIRE HOSE VALVE CABINET
		CLEAN AGENT FIRE SUPPRESSION
		DISCHARGE NOZZLE
		AUDIO/VISUAL ALARM
		CONTROL PANEL

PIPING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
CA	CA	COMPRESSED AIR
FP	FP	FIRE PROTECTION; WET PIPE
DFP	DFP	FIRE PROTECTION; DRY PIPE
SP	SP	STANDPIPE; WET
DSP	DSP	STANDPIPE; DRY
DP	DP	DRY PIPE/PRE-ACTION FIRE PROTECTION

FIRE PROTECTION-INTERIOR

SYMBOL	DESCRIPTION
●	PENDANT STYLE HEAD/DRY TYPE AS NOTED
○	UPRIGHT STYLE HEAD/DRY TYPE AS NOTED
△	SIDEWALL STYLE HEAD/DRY TYPE AS NOTED

ABBREVIATIONS

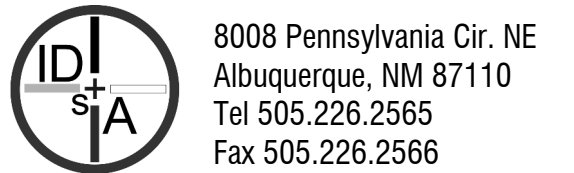
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANT	ACID NEUTRALIZING TANK
BOP	BOTTOM OF PIPE
DN	DOWN
EL	ELEVATION
FEE	FINISHED FLOOR ELEVATION
FT	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HEAD
HP	HORSEPOWER
IN	INCHES
INV	INVERT
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
No. #	NUMBER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OS&Y	OUTSIDE SCREW AND YOKE
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
SP	STATIC PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
YB	YARD BOX
YH	YARD HYDRANT

VALVE SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
FP		ROOF MANIFOLD
FDC	FDC	FIRE DEPARTMENT INLET CONNECTION
FDC (E)	(E)FDC	EXISTING FIRE DEPARTMENT INLET CONNECTION
FP	FP	WET PIPE FIRE RISER
FP	DFP	DRY PIPE FIRE RISER
FP	DP	DELUGE/PREACTION FIRE RISER
FP	D	INSPECTOR'S TEST CONNECTION (HORIZONTAL)
FP	D	INSPECTOR'S TEST CONNECTION (VERTICAL)
		STANDPIPE VALVE
		FLOW CONTROL VALVE
		FLOW SWITCH
		GATE VALVE
		GLOBE VALVE
		OS&Y VALVE
		BUTTERFLY VALVE
		BALL VALVE
		CHECK VALVE
		WATER PRESSURE REDUCING VALVE
		AUTO BALL DRIP VALVE
		PRESSURE RELIEF VALVE
		TEMPERATURE AND PRESSURE RELIEF VALVE
		DRAIN VALVE
		VALVE IN VERTICAL
		FLOW SWITCH
		DIAPHRAGM (PROCESS SYSTEMS)
		REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
		ATMOSPHERIC VACUUM BREAKER
		PRESSURE STYLE VACUUM BREAKER

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CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
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SHEET TITLE

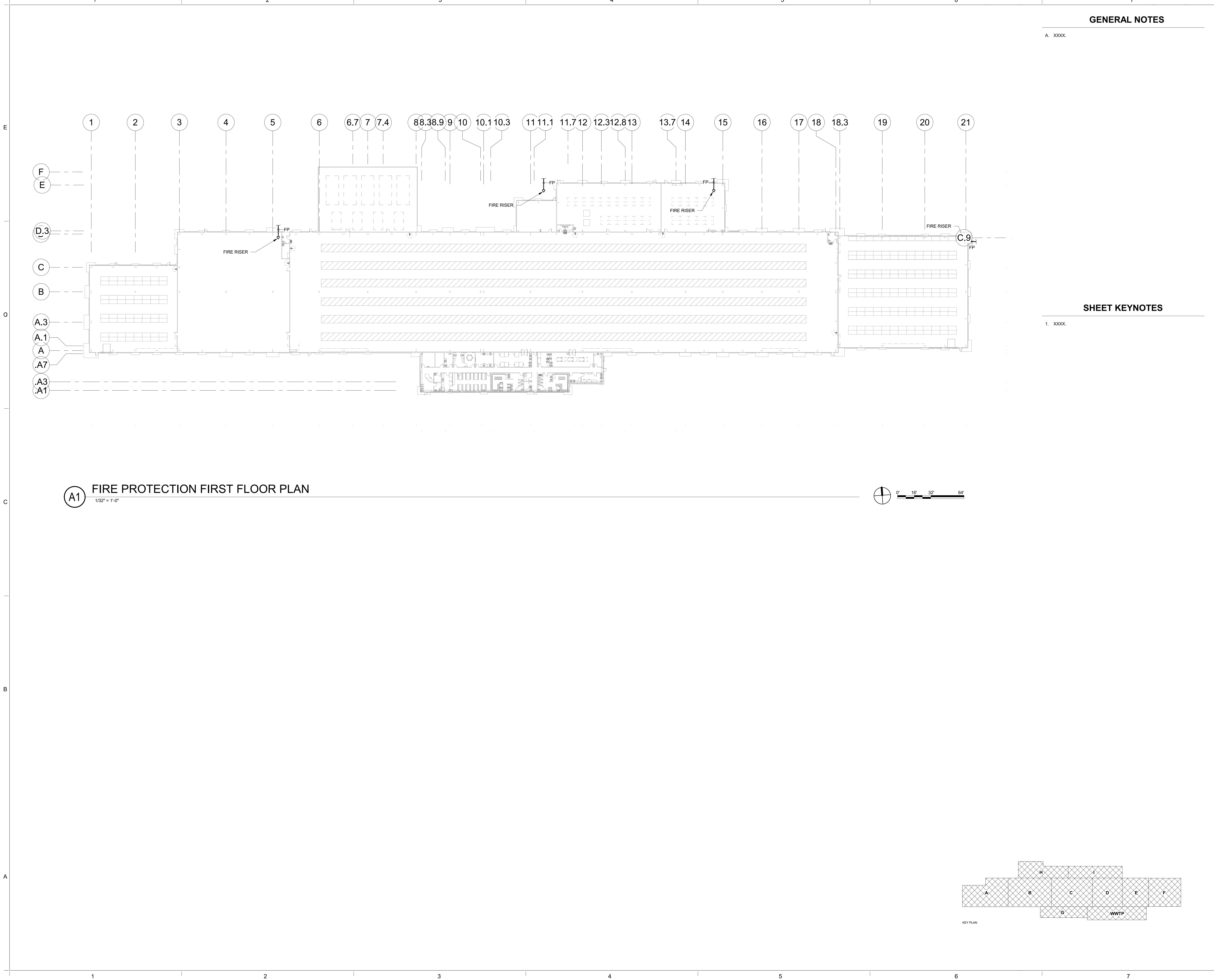
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SHEET NUMBER

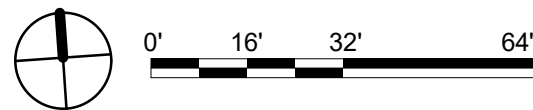
FX001

Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 11:58:55 AM B:\1860\Church Rock Phase II Factory\8286_ME\2_Church Rock Factory.rvt



(A1) FIRE PROTECTION FIRST FLOOR PLAN
1/32" = 1'-0"



GENERAL NOTES

A. XXXX.

SHEET KEYNOTES

1. XXXX.

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CHURCH ROCK, NEW MEXICO
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Albuquerque, NM 87110 | 505.883.4111 | www.bpc.com
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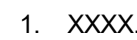
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FIRE PROTECTION FLOOR PLAN

SHEET NUMBER

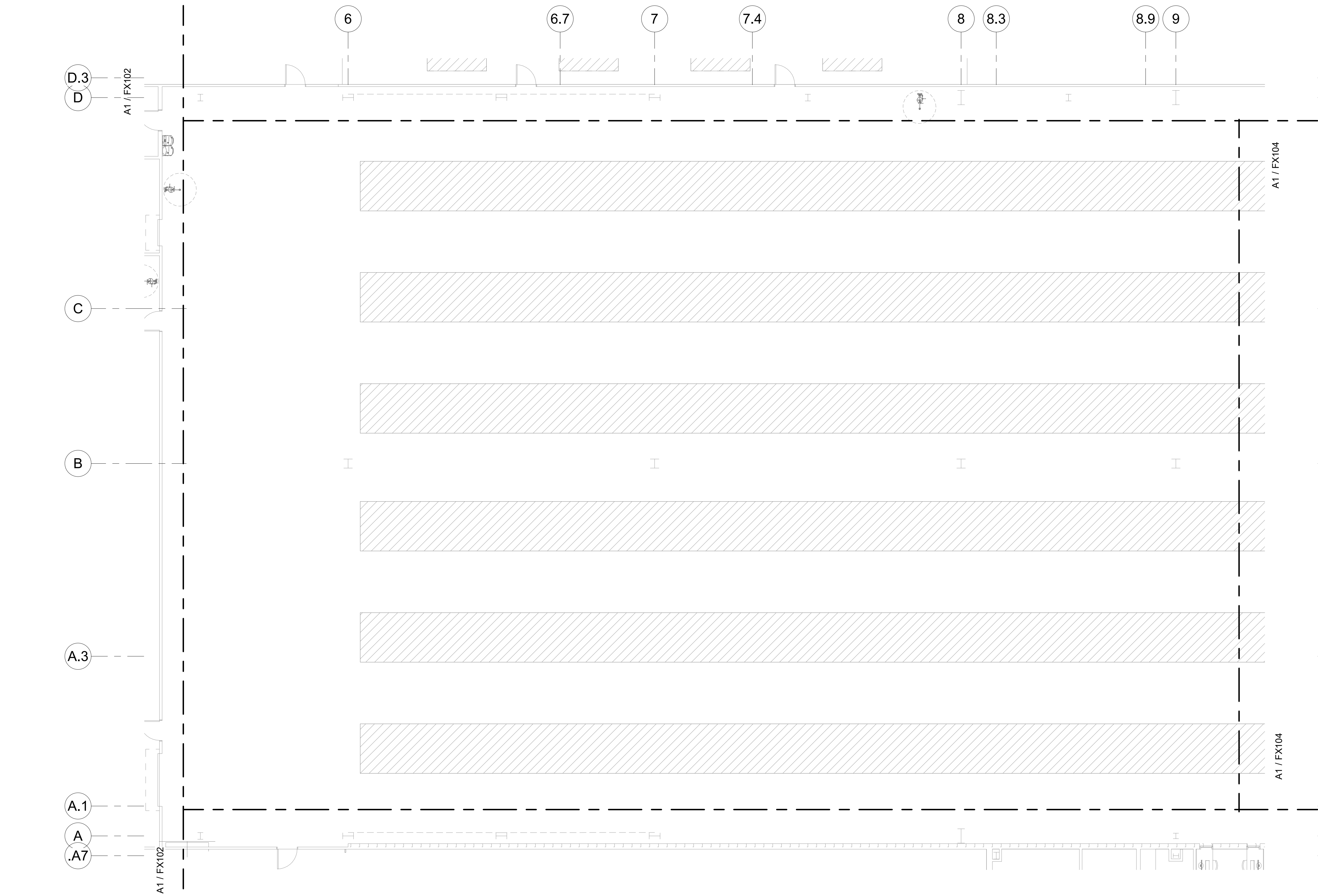
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Sequence of

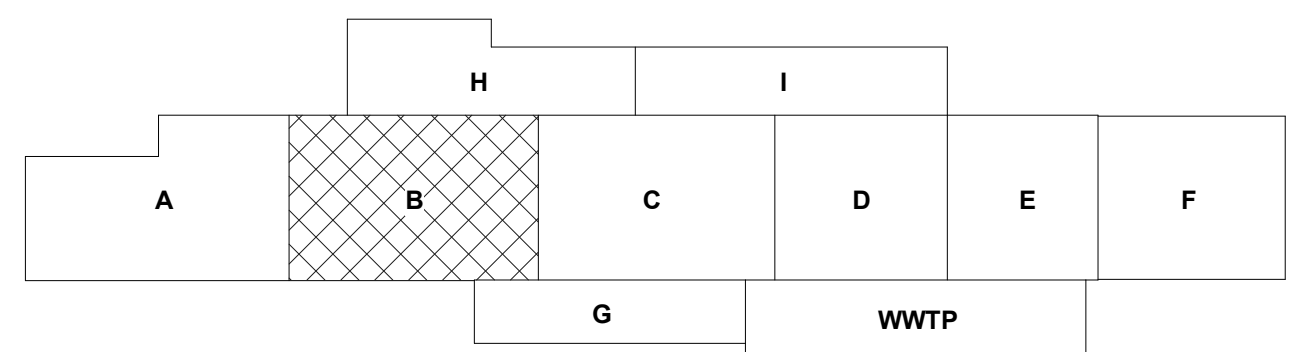


Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 11:58:58 AM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt



(A1) FIRE PROTECTION FIRST FLOOR PLAN - AREA B FACTORY
1/8" = 1'-0"



GENERAL NOTES

A. XXXX.

SHEET KEYNOTES

1. XXXX.

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CHURCH ROCK, NEW MEXICO
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SHEET TITLE

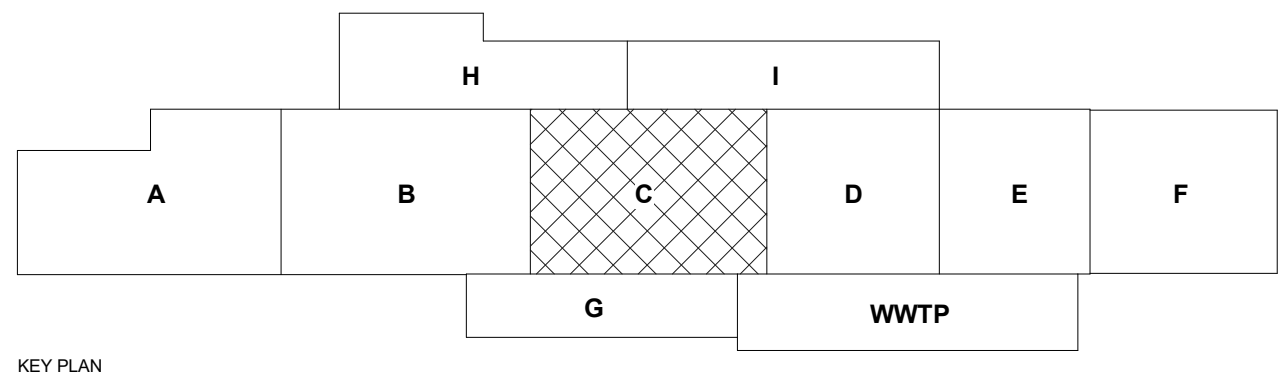
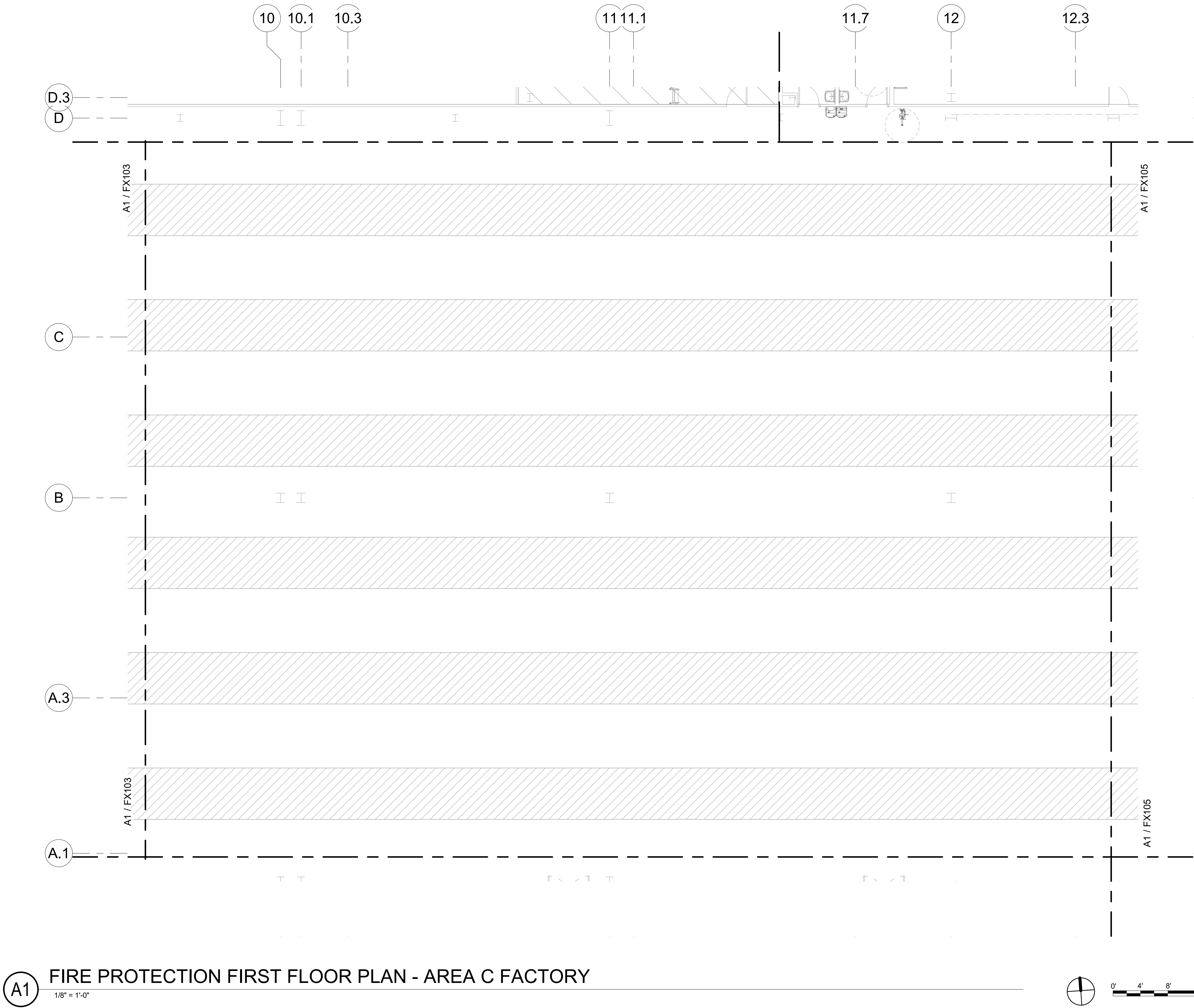
**FIRE PROTECTION
FLOOR PLAN -
AREA B FACTORY**

SHEET NUMBER

FX103

Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 11:58:59 AM B:\360\Church Rock Phase II Factory\8286_MEP_Church Rock Factory.rvt



GENERAL NOTES

A. XXXX.

SHEET KEYNOTES

1. XXXX.

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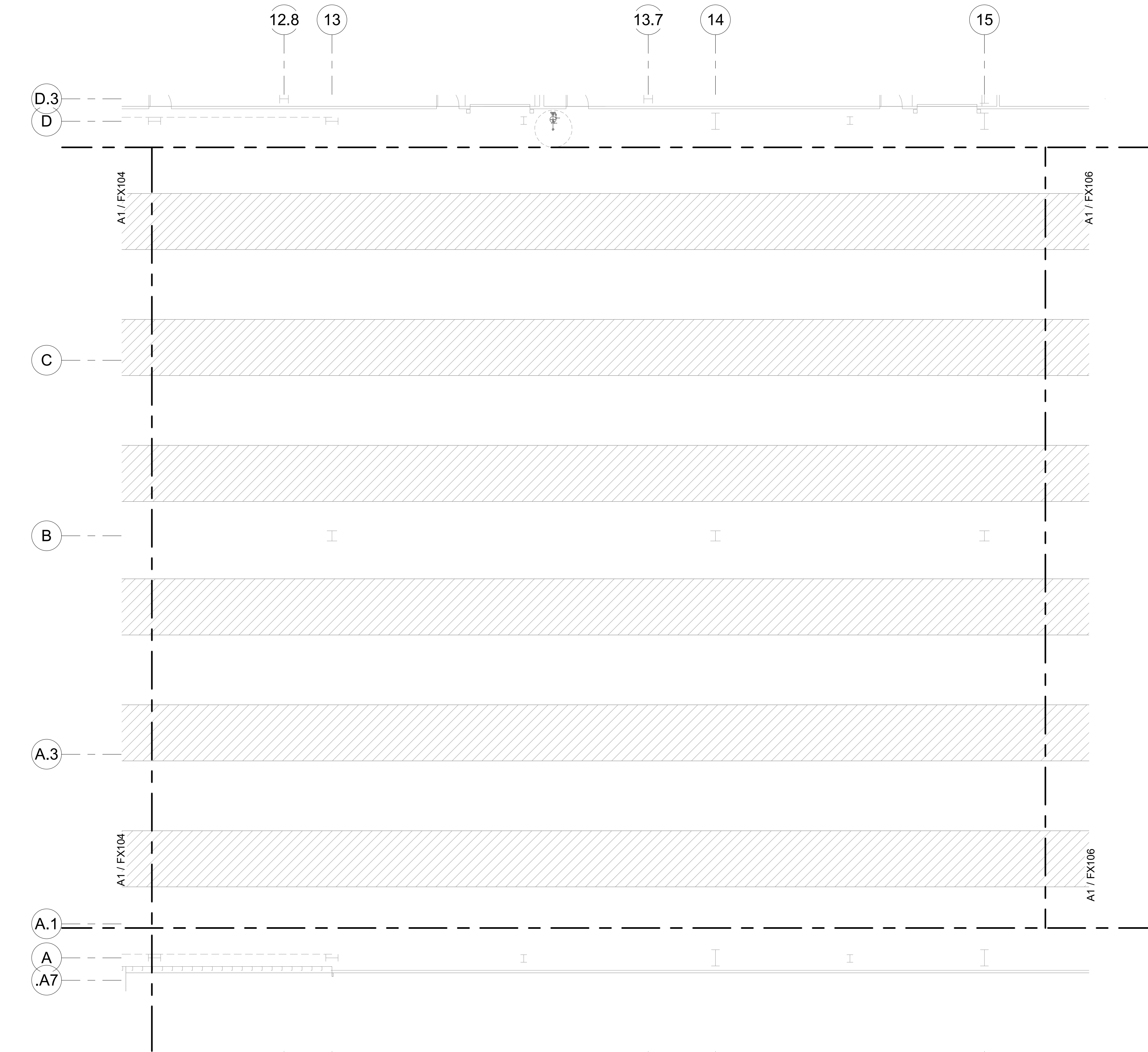
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**FIRE PROTECTION
FLOOR PLAN -
AREA C FACTORY**

SHEET NUMBER

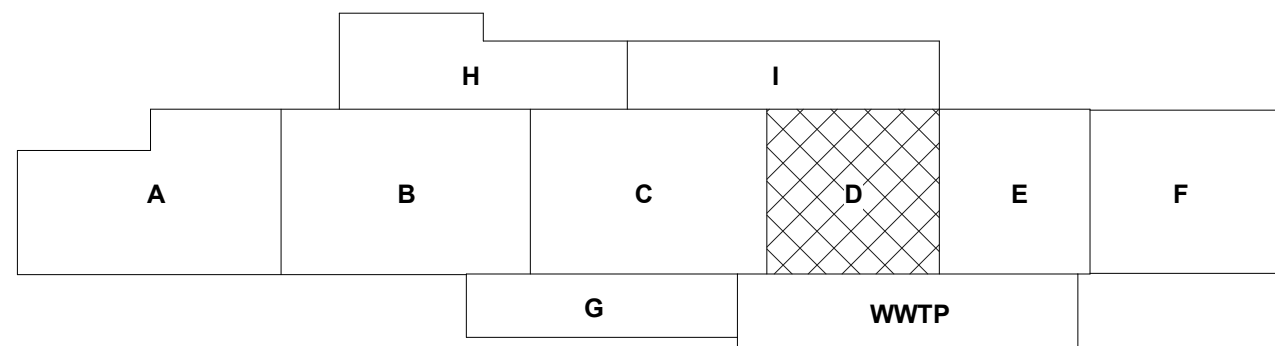
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Sequence of

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A1 FIRE PROTECTION FIRST FLOOR PLAN - AREA D FACTORY
1/8" = 1'-0"



GENERAL NOTES
A. XXXX.

SHEET KEYNOTES
1. XXXX.

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	FEBRUARY 16, 2022	

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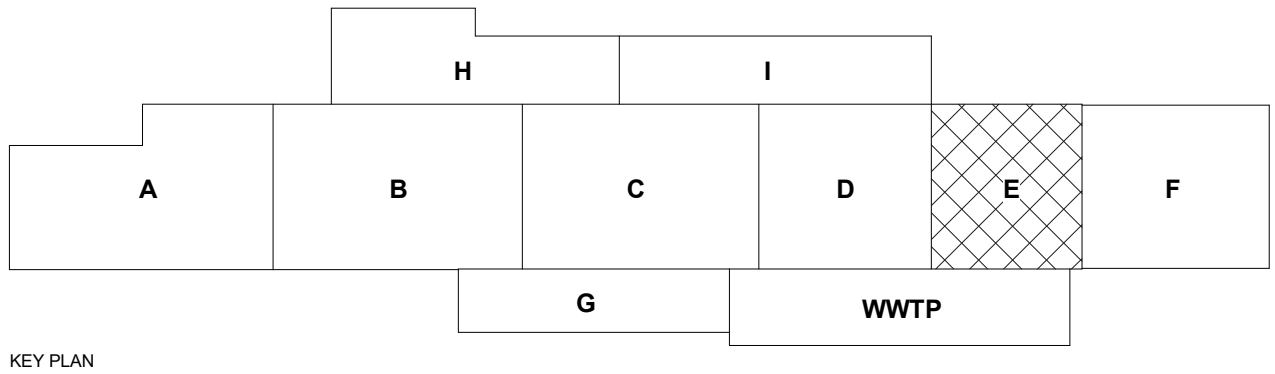
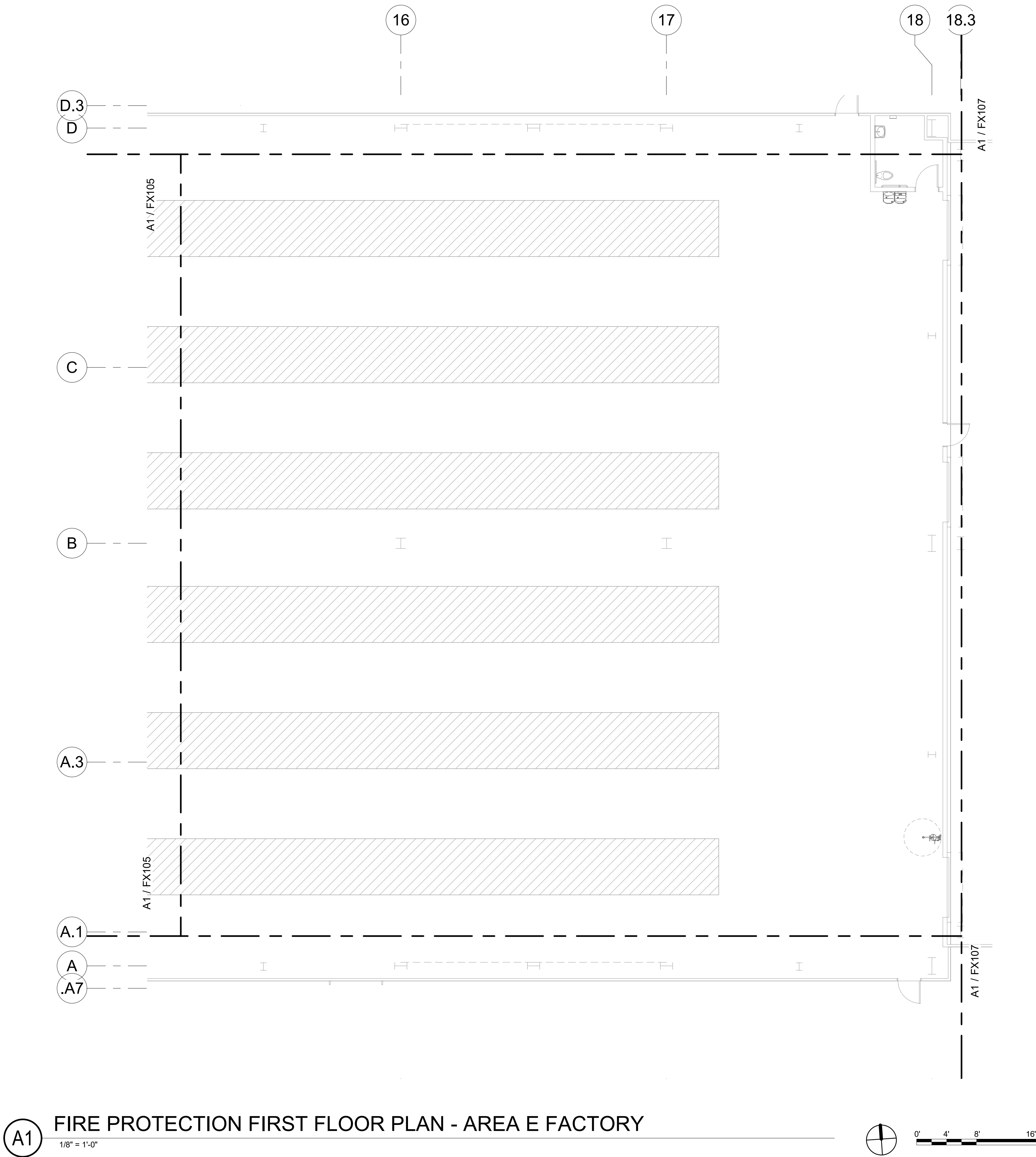
SHEET TITLE
FIRE PROTECTION FLOOR PLAN - AREA D FACTORY

SHEET NUMBER

FX105

Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 11:59:00 AM B:\360\Church Rock Phase II Factory\8286_MEP_Church Rock Factory.rvt



GENERAL NOTES

A. XXXX.

SHEET KEYNOTES

1. XXXX.

CHURCH ROCK PHASE II FACTORY
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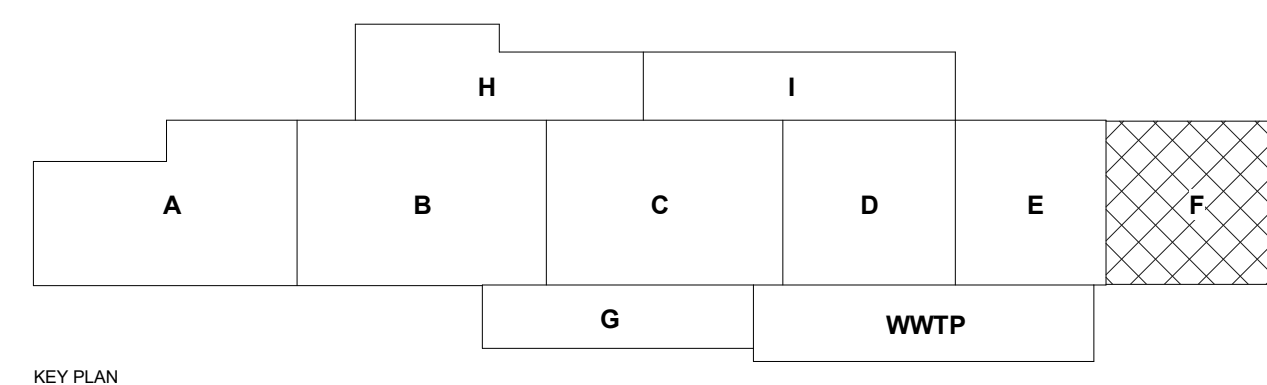
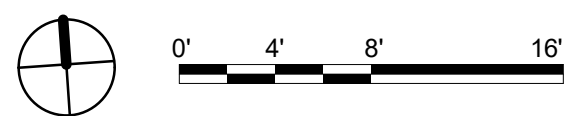
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SHEET TITLE
FIRE PROTECTION FLOOR PLAN - AREA E FACTORY

SHEET NUMBER
FX106
Sequence of

(A1) FIRE PROTECTION FIRST FLOOR PLAN - AREA F WAREHOUSE
1/8" = 1'-0"



KEY PLAY

GENERAL NOTES

A. XXXX

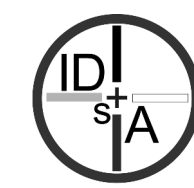
SHEET KEYNOTES

1. XXXX

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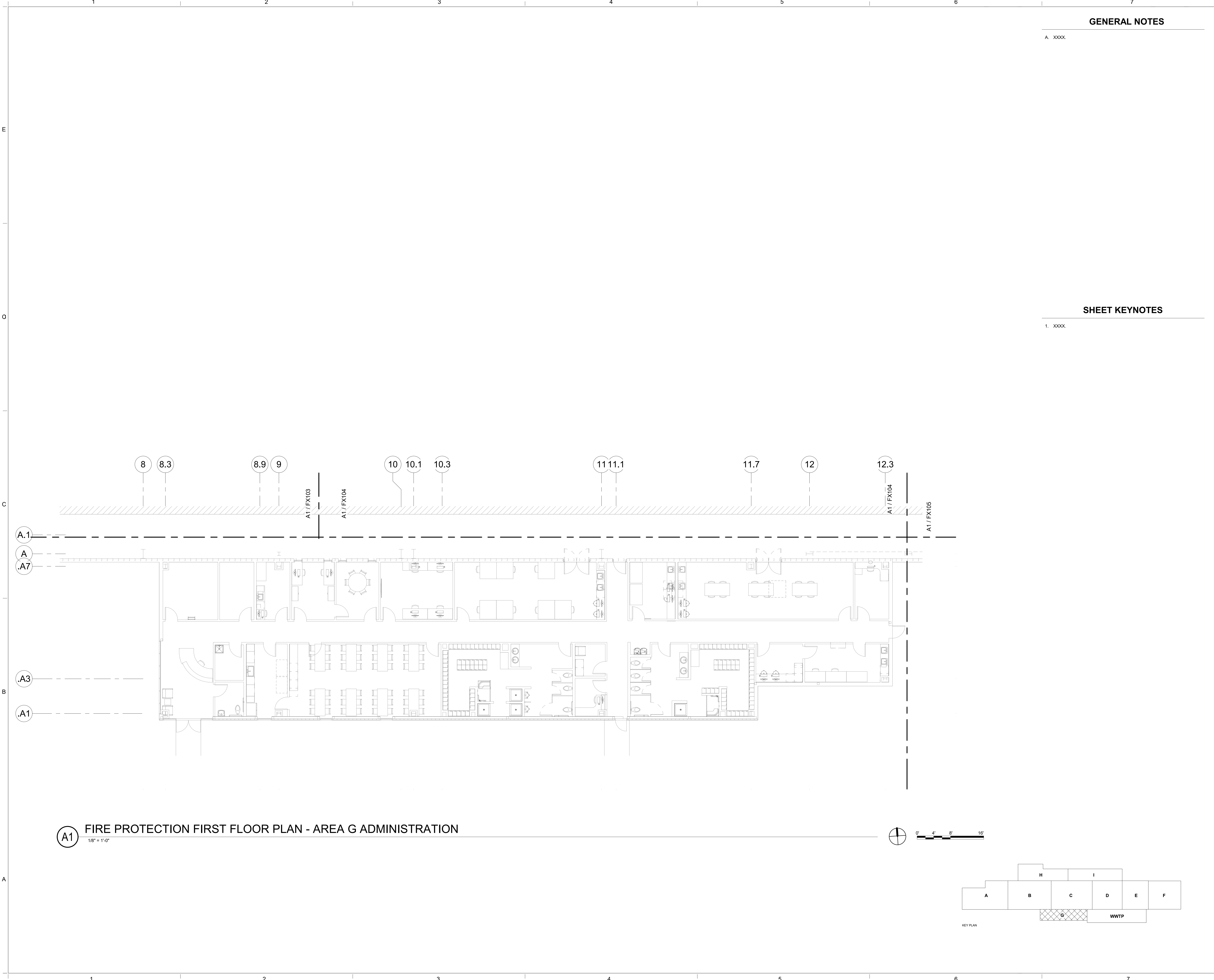
**FIRE PROTECTION
FLOOR PLAN -
AREA F
WAREHOUSE**

SHEET NUMBER

FX107

Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 11:59:03 AM BIM 360://Church Rock Phase II Factory/8286_MEP_Church Rock Factory.rvt



GENERAL NOTES

A. XXXX.

SHEET KEYNOTES

1. XXXX.

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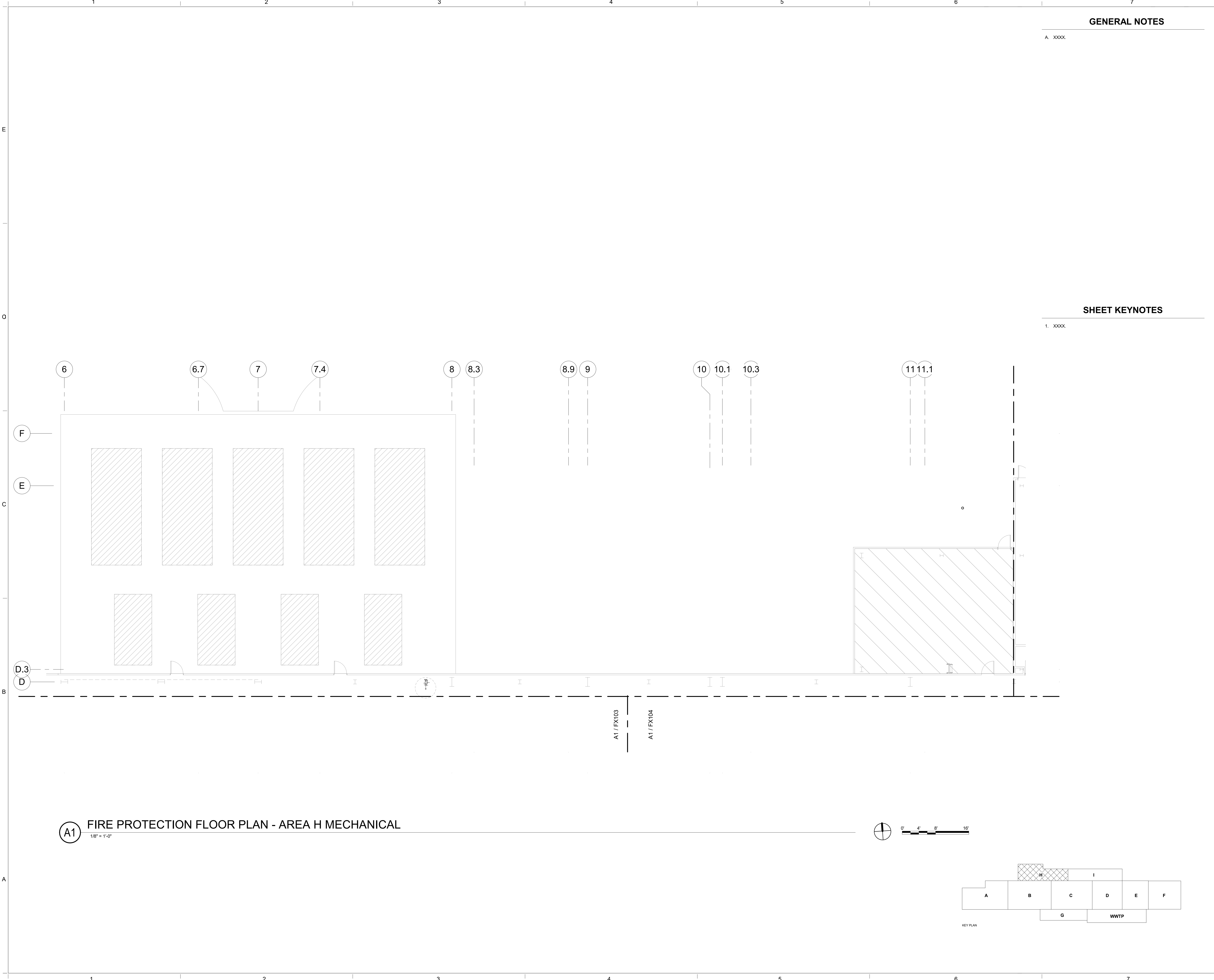
FIRE PROTECTION
FLOOR PLAN -
AREA G ADMIN

SHEET NUMBER

FX108

Sequence of

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GENERAL NOTES

A. XXXX.

SHEET KEYNOTES

1. XXXX.

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SHEET TITLE

FIRE PROTECTION
FLOOR PLAN -
AREA H MECH

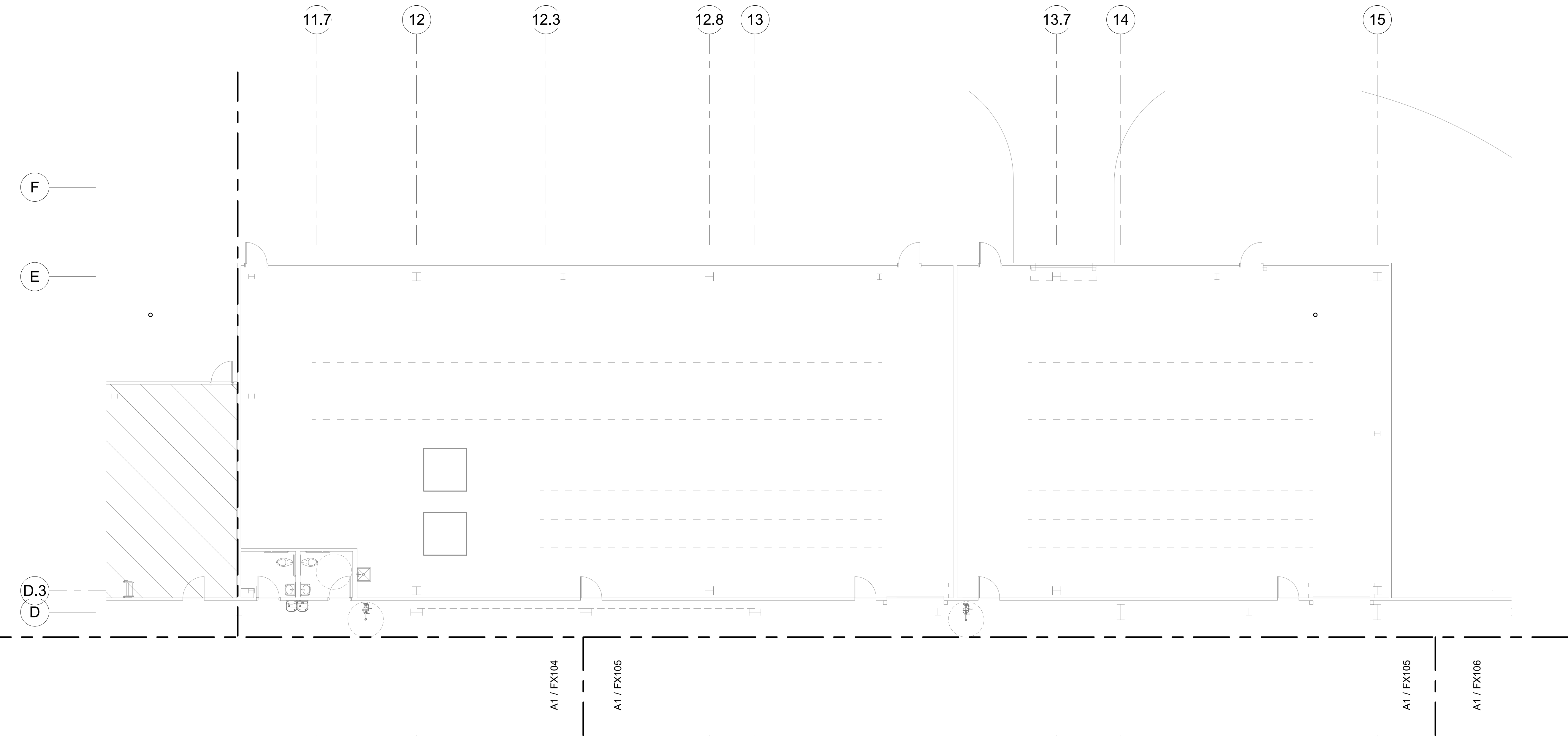
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FX109

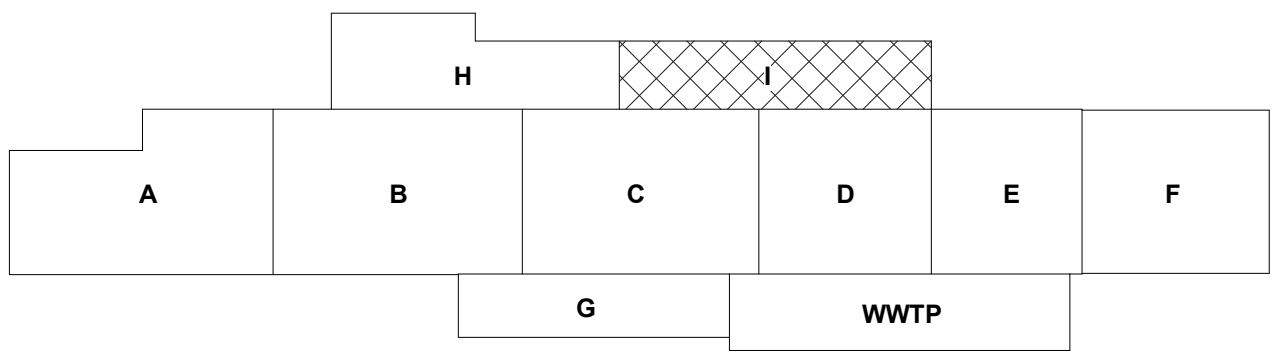
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Bridgers & Paxton Project No. 8286 3/25/2022 11:59:05 AM BIM_360/Church Rock Phase II Factory/8286_MEP_Church Rock Factory.rvt



(A1) FIRE PROTECTION FIRST FLOOR PLAN - AREA I MECHANICAL
1/8" = 1'-0"



GENERAL NOTES

A. XXXX.

SHEET KEYNOTES

1. XXXX.

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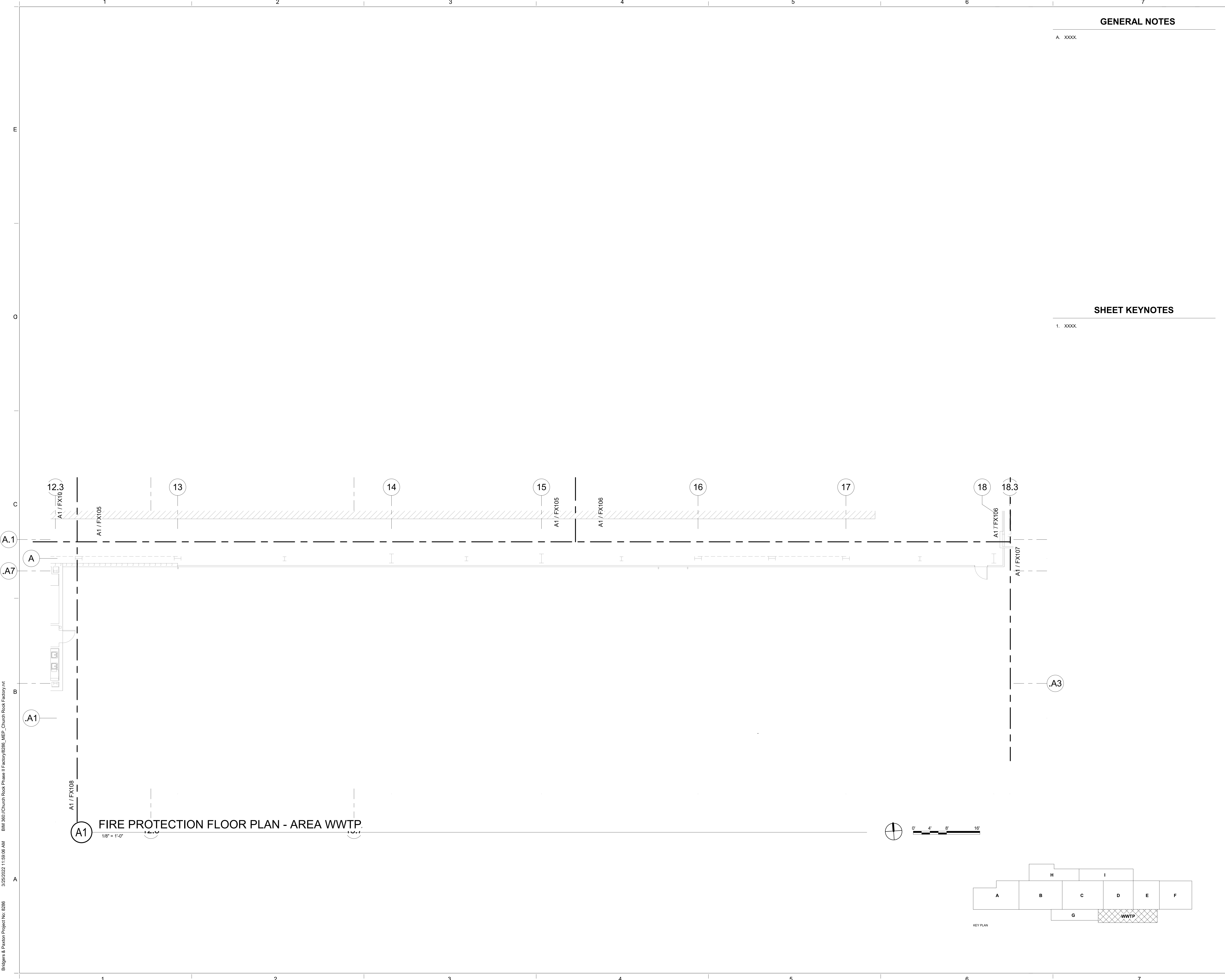
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SHEET TITLE
FIRE PROTECTION FLOOR PLAN - AREA I MECH

SHEET NUMBER
FX110
Sequence of

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GENERAL NOTES

A. XXXX.

SHEET KEYNOTES

1. XXXX.

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SHEET TITLE
FIRE PROTECTION FLOOR PLAN - AREA WWTP

SHEET NUMBER

FX111

Sequence of

PLUMBING SYMBOL LEGEND

MEDICAL GAS SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
MA	MA	MEDICAL AIR
N	N	NITROGEN
NO	NO	NITROUS OXIDE
O	O	OXYGEN
MV	MV	MEDICAL VACUUM
IA	IA	INSTRUMENT AIR
WAGD	WAGD	WASTE ANESTHESIA GAS DISPOSAL
DA	DA	DENTAL AIR
DV	DV	DENTAL VACUUM
		EXISTING PIPING
		ALARM PANEL (IN WALL)
		MEDICAL VALVE BOX
		MEDICAL GAS DROP

PROCESS GASES

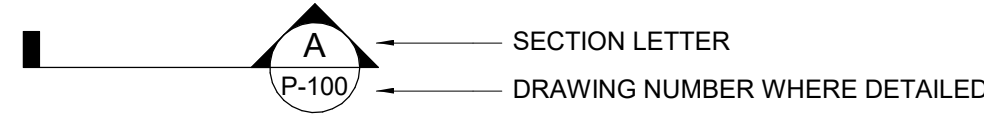
SYMBOL	ABBREVIATION	DESCRIPTION
CDA	CDA	COMPRESSED DRY AIR
CO2	CO2	CARBON DIOXIDE
AR	AR	ARGON
AC	AC	ACETYLENE
HE	HE	HELIUM
H	H	HYDROGEN
LN	LN	LIQUID NITROGEN
LOX	LOX	LIQUID OXYGEN
O	O	OXYGEN

PLUMBING FIXTURE & EQUIPMENT SYMBOL

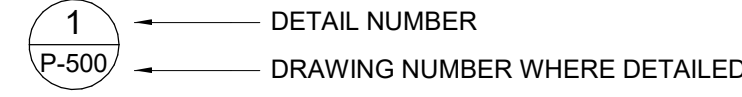
LETTER REFERS TO PLUMBING FIXTURE	LETTER REFERS TO PLUMBING EQUIPMENT
P## - NUMBER AND/OR LOWERCASE LETTER REFERS TO SPECIFIC CATEGORY	TMV-1 - NUMBER REFERS TO SPECIFIC EQUIPMENT COUNT
SYMBOL INDICATES FIXTURE IDENTIFIED IN FIXTURE SCHEDULE ex. P1a WATER CLOSET (BARRIER FREE)	SYMBOL INDICATES EQUIPMENT IDENTIFIED IN EQUIPMENT SCHEDULE
P1 WATER CLOSETS	TMV-1 THERMOSTATIC MIXING VALVE
P2 URINALS	DWH-1 DOMESTIC WATER HEATER
P3 LAVATORIES	EW-1 ELECTRIC WATER HEATER
P4 SINKS	IWH-1 INSTANTANEOUS WATER HEATER
P5 SERVICE SINKS	RCP-1 RECIRCULATION PUMP
P6 WATER COOLERS/DRINKING FOUNTAINS	EXP-1 EXPANSION TANK
P7 SHOWERS/BATHTUBS	RPZ-1 REDUCED PRESSURE ZONE BACKFLOW
P8 WATER HAMMERS/SHOCK ABSORBERS	BFP-1 DOUBLE CHECK BACKFLOW
P9 HOSE BIBBS	GI-1 GREASE INTERCEPTOR
P10 HYDRANTS	OI-1 OIL INTERCEPTOR
P11 SUPPLY BOXES	OS-1 OIL/SAND INTERCEPTOR
P12 WASHER BOXES	AN-1 ACID NEUTRALIZER
P13 EYEWASH/EYEWASH SHOWERS	LI-1 LINT INTERCEPTOR
P14 CLINIC SINKS	GM-1 GAS METER
P15 TRAP PRIMER	REG-1 REGULATOR
FD1 FLOOR DRAINS	PRV-1 PRESSURE REDUCING VALVE
FS1 FLOOR SINKS	
RD1 ROOF DRAINS	
ORD1 OVERFLOW DRAINS	
DSN1 DOWNSPOUT NOZZLES	
AD1 AREA DRAINS	
DD1 DECK DRAINS	

NOTE: NOT ALL FIXTURE & EQUIPMENT SYMBOLS APPLY TO THIS PROJECT

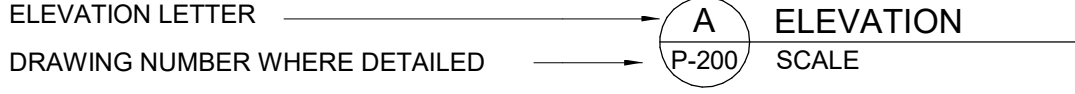
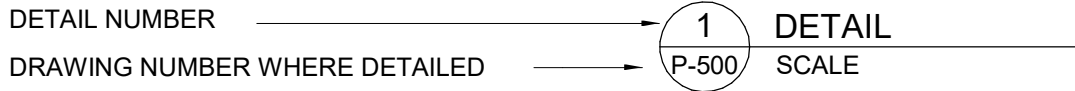
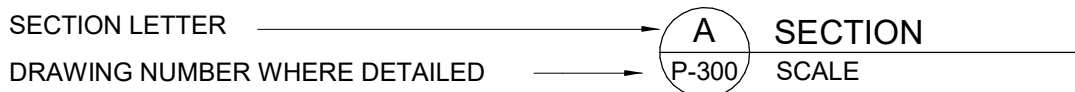
SECTION SYMBOL



DETAIL SYMBOL



SECTION, ELEVATION, AND DETAIL TITLES



PIPING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
AV	AV	ACID VENT
AW	AW	ACID WASTE
CA	CA	COMPRESSED AIR
CD	CD	CONDENSATE DRAIN
DCW	DCW	DOMESTIC COLD WATER
DHW	DHW	DOMESTIC HOT WATER
DHWR	DHWR	DOMESTIC HOT WATER RETURN
DHW 140°F	DHW 140°F	140° DOMESTIC HOT WATER
DHWR 140°F	DHWR 140°F	140° DOMESTIC HOT WATER RETURN
ROS	ROS	REVERSE OSMOSIS SUPPLY
ROR	ROR	REVERSE OSMOSIS RETURN
MU	MU	MAKE-UP WATER
NPW	NPW	NON-POTABLE WATER
V	V	VENT
DIS	DIS	DEIONIZED WATER SUPPLY
DIR	DIR	DEIONIZED WATER RETURN
SAN	SAN	SANITARY SEWER
GW	GW	GREASE WASTE
GV	GV	GREASE VENT
RD	RD	STORM/ROOF DRAIN
QRD	QRD	OVERFLOW ROOF DRAIN
LPG	LPG	LIQUEFIED PETROLEUM GAS
G	G	NATURAL GAS-LOW PRESSURE
NGM	NGM	NATURAL GAS-MEDIUM PRESSURE
NGH	NGH	NATURAL GAS-HIGH PRESSURE
IRR	IRR	IRRIGATION
SCW	SCW	SOFT COLD WATER
SHW	SHW	SOFT HOT WATER
TWR	TWR	TEMPERED WATER RETURN (TEMP °F)
TW	TW	TEMPERED WATER (TEMP °F)
PD	PD	PUMPED DISCHARGE LINE
ICW	ICW	INDUSTRIAL COLD WATER
IHW	IHW	INDUSTRIAL HOT WATER
IHW	IHW	INDUSTRIAL HOT WATER RETURN
INW	INW	INDUSTRIAL WASTE
IA	IA	INSTRUMENT COMPRESSED AIR
IW	IW	INDIRECT WASTE
LA	LA	LAB COMPRESSED AIR

SITE UTILITY SYMBOLS

DESCRIPTION	NEW	EXISTING
SANITARY SEWER	S	EX. S
COLD WATER SUPPLY	W	EX. W
FIRE PROTECTION	F	EX. F
NATURAL GAS	G	EX. G
STORM DRAIN	SD	EX. SD
IRRIGATION	IRR	EX. IRR
VALVE WITH VALVE BOX	F.H.	F.H.(E)
FIRE HYDRANT	F.D.C.	F.D.C.
FIRE DEPARTMENT INLET CONNECTION		
CONSTRUCTION		
THRUST BLOCK	▲	▲
CLEANOUT	SAS C.O.	SAS C.O.(E)
POWER POLE	PP	PP
FENCING		
LIGHT POLE	LP	LP
WATER METER	WM	WM
NATURAL GAS METER	GM	GM
GATE VALVE		
VALVE IN RISER	PIV	PIV
POST INDICATOR VALVE		
REDUCED PRESSURE BACKFLOW PREVENTER		
SANITARY MANHOLE	SAS M.H.	SAS M.H.(E)
SLOPE AND LINEAL FOOTAGE	25' OF 6" @ 0.15% SLOPE	

VALVE SYMBOLS

SYMBOL	DESCRIPTION
	GATE VALVE
	GLOBE VALVE
	SOLENOID VALVE
	OS&Y VALVE
	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	PLUG VALVE
	BALANCING VALVE/CIRCUIT SETTER DEVICE
	PRESSURE REDUCING VALVE
	REGULATING/SUSTAINING VALVE
	2-WAY CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	FUEL GAS PRESSURE REGULATOR
	PRESSURE RELIEF VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	DRAIN VALVE
	VALVE IN VERTICAL
	FLOW SWITCH
	DIAPHRAGM (PROCESS SYSTEMS)
	REDUCED PRESSURE BACKFLOW PREVENTER (RPZ)
	ATMOSPHERIC VACUUM BREAKER
	PRESSURE STYLE VACUUM BREAKER

NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANT	ACID NEUTRALIZING TANK
AVTR	ACID RESISTANT VENT THROUGH ROOF
B.C.	BALANCING COCK
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CWB	CLOTHES WASHER BOX
CFH	CUBIC FEET PER HOUR
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CP	CIRCULATION PUMP
CWV	COMBINATION WASTE AND VENT
DCO	DOUBLE CLEANOUT
DCOTG	DOUBLE CLEANOUT TO GRADE
DF	DOWN
DN	DOWNSPOUT
DS	DOWNSPOUT NOZZLE
DSN	DOWN
EL	ELEVATION
EW	ELECTRIC WATER HEATER
EW	ELECTRIC WATER COOLER
EEW	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER EYE WASH
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FT	FEET
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FV	FLUSH VALVE
GD	GUTTER DRAIN
GI	GREASE INTERCEPTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HEAD
HP	HORSEPOWER
IN	INCHES
IN	INVERT
KW	KILOWATT
Mbh	1,000 BTUH
MV	MIXING VALVE
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
No. #	NUMBER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OS&Y	OUTSIDE SCREW AND YOKE
PH	PHASE
PH	POUNDS OF HARDNESS
PSIG	POUNDS PER SQUARE INCH GAUGE
SP	STATIC PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
YB	YARD BOX
YH	YARD HYDRANT
WCO	WALL CLEANOUT
WC	WATER CLOSET

SCHEMATIC SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
XX		KEYED NOTE
XXXXX		POINT OF CONNECTION TO EXISTING
		EXISTING PIPE TO BE REMOVED
		NEW PIPING
		EXISTING PIPING TO REMAIN
		NEW PIPE CONNECTION TO EXISTING PIPING
		SLOPE OF PIPE
		DIRECTION OF FLOW
		DROP IN PIPE
		RISE IN PIPE
		TOP CONNECTION, 45° OR 90°
		BOTTOM CONNECTION, 45° OR 90°
		CAPPED OUTLET
		SIDE CONNECTION
		UNION
		FLANGED UNION
		ORIFICE UNION
		REDUCER OR INCREASER
		ECCENTRIC REDUCER
		PIPE GUIDE
		FLEXIBLE CONNECTION
		UNIVERSAL TEMPERATURE-PRESSURE FITTING (PETE'S PLUG)
		STRAINER WITH BLOWDOWN VALVE & HOSE BIBB
		THERMOMETER
		PRESSURE GAUGE AND GAUGE COCK
		AQUASTAT
		WATER HAMMER ARRESTOR
		TEST PLUG (PRESS/TEMP)
		PENETRATION
	MAV	MANUAL AIR VENT (MAV)
	AAV	AUTOMATIC AIR VENT (AAV)
	FS/FD/AD	FLOOR SINK, FLOOR DRAIN, AREA DRAIN
	FCO/COTG	FLOOR CLEANOUT/CLEANOUT TO GRADE
	DCOTG	TWO WAY OR DOUBLE CLEANOUT TO GRADE
	RD/OD/DD	ROOF DRAIN/OVERFLOW DRAIN/DECK DRAIN
	TP	TRAP PRIMER WITH ACCESS PANEL
	VTR	VENT THROUGH ROOF
	AG	AIR GAP FITTING
	(WH) (HB)	WALL HYDRANT, HOSE BIBB
	WCO	WALL CLEANOUT

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
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LEGEND

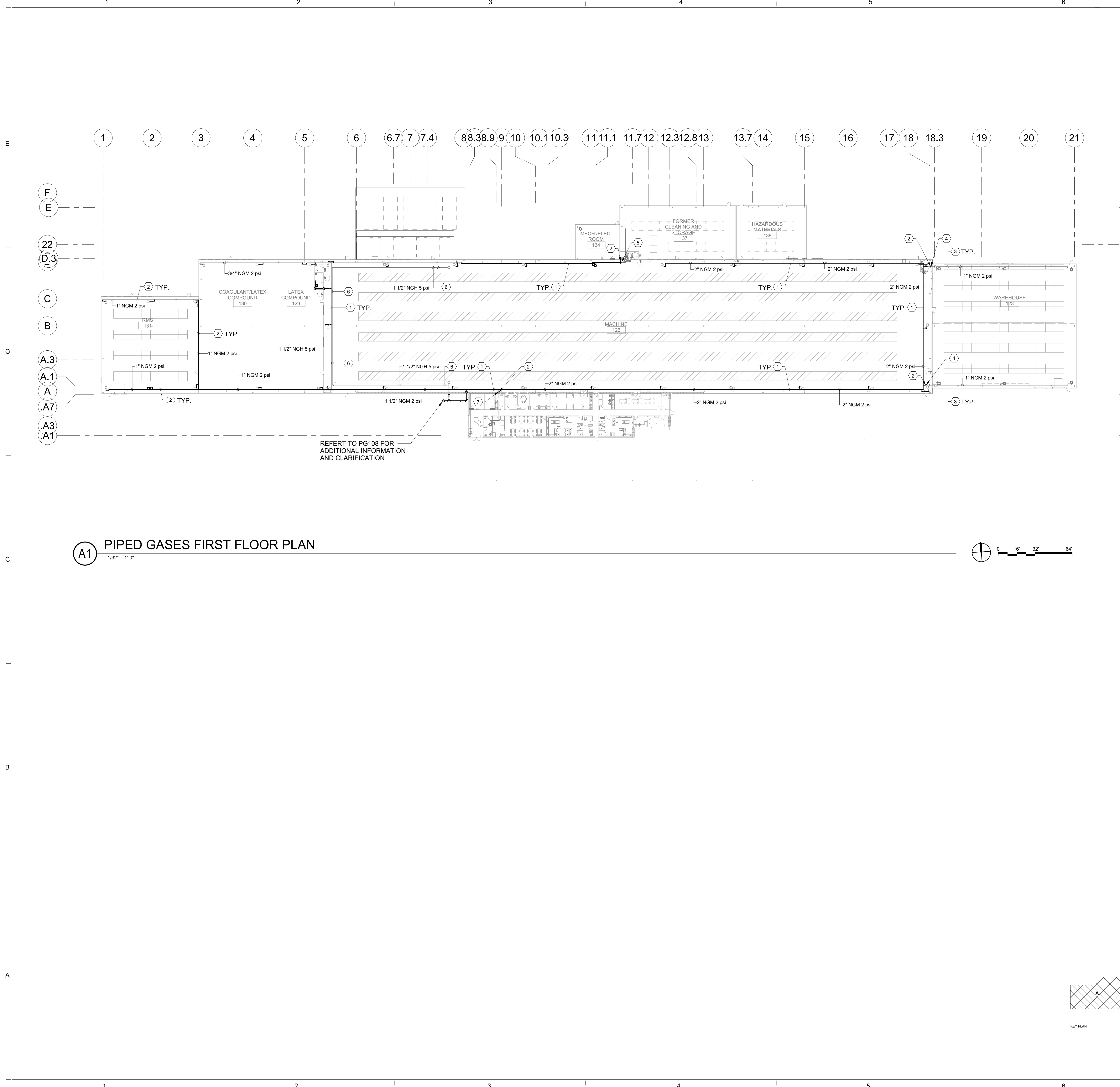
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P-001

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Bridgers & Paxton Project No. 8286



- GENERAL NOTES**
- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
 - B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
 - C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
 - D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
 - E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
 - F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
 - G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

- SHEET KEYNOTES**
- 1. INSTALL 2 PSI GAS PIPING IN FACTORY CEILING SPACE AS PART OF PHASE 2. REFER TO ENLARGEMENTS FOR CONNECTIONS TO EQUIPMENT.
 - 2. AS PART OF PHASE 2. VALVE AND CAP GAS PIPING IN CEILING SPACE TO ALLOW FOR CONNECTION IN PHASE 3.
 - 3. INSTALL 2 PSI GAS PIPING IN WAREHOUSE SPACE AS PART OF PHASE 3. REFER TO ENLARGEMENTS FOR CONNECTIONS TO EQUIPMENT.
 - 4. AS PART OF PHASE 3 CONNECT AND EXTEND 2 PSI GAS PIPING TO WAREHOUSE SPACE.
 - 5. AS PART OF PHASE 3 CONNECT AND EXTEND 2 PSI GAS PIPING TO FORMER CLEANING AND STORAGE SPACE.
 - 6. INSTALL 5 PSI GAS PIPING IN FACTORY CEILING SPACE AS PART OF PHASE 3. REFER TO ENLARGEMENTS FOR CONNECTIONS TO EQUIPMENT AND ADDITIONAL INFORMATION.
 - 7. AS PART OF PHASE 3 CONNECT AND EXTEND 2 PSI GAS PIPING TO ADMINISTRATION AREA CEILING SPACE.

PIPED GASES FIRST FLOOR PLAN

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC
8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

CONSULTANT INFO & LOGO
BRIDGERS & PAXTON
4600 C Montgomery Blvd. NE
Albuquerque, NM 87110 | 505.883.4111 | www.bpcos.com
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SHEET TITLE

PIPED GASES FLOOR PLAN

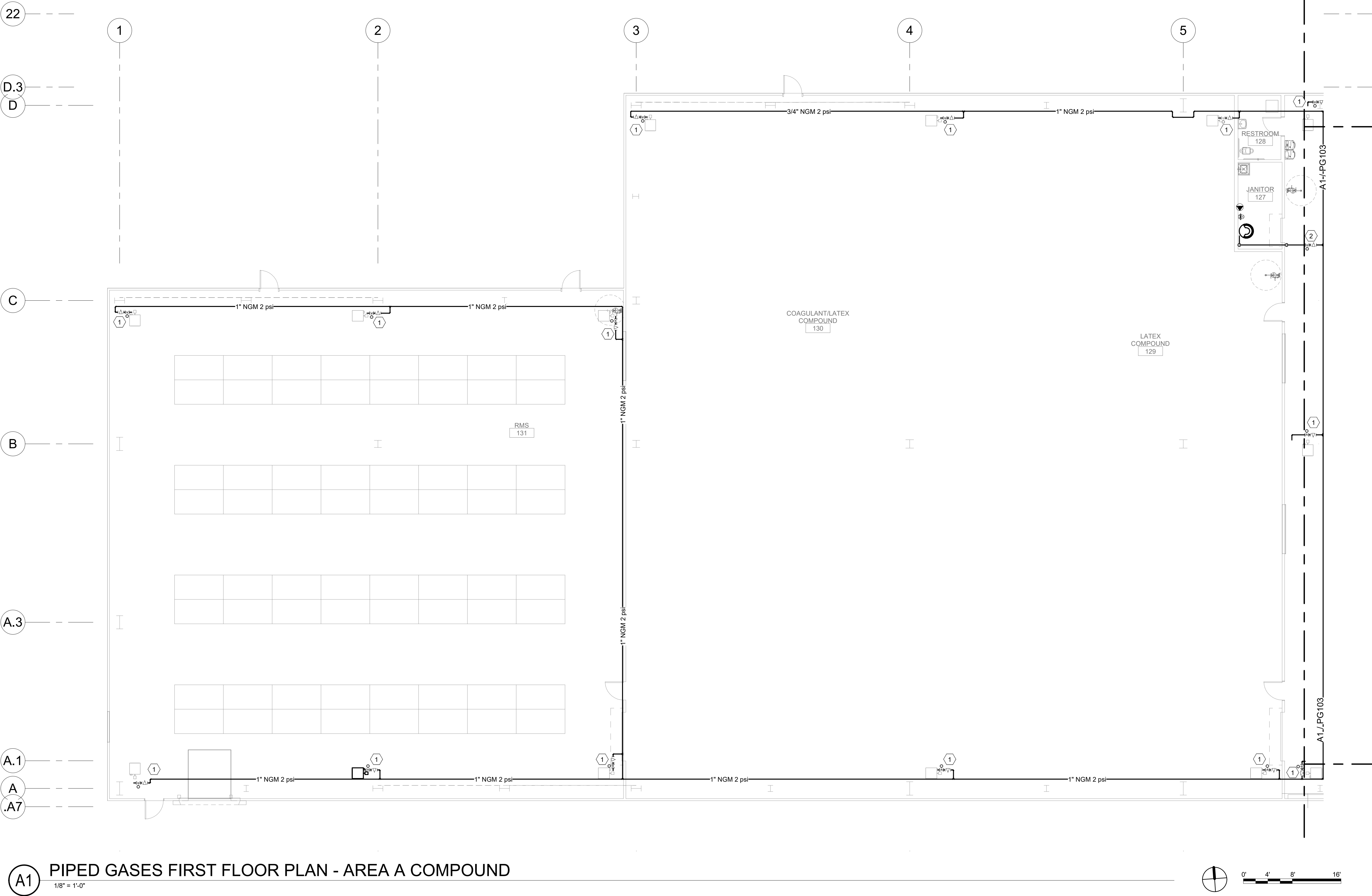
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PG101

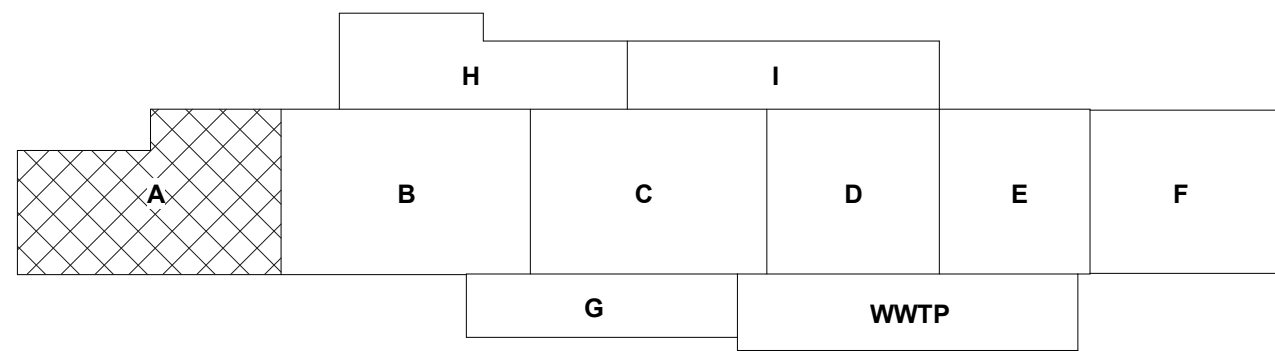
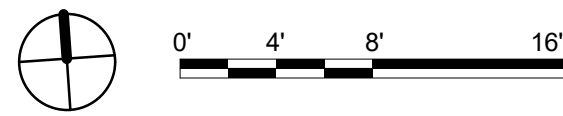
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Bridgers & Paxton Project No. 8286



(A1) PIPED GASES FIRST FLOOR PLAN - AREA A COMPOUND
1/8" = 1'-0"



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. INSTALL GAS PIPING IN FACTORY AREA AS PART OF PHASE 2.

SHEET KEYNOTES

- 1. PHASE 2: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. EXTEND AND CONNECT 3/4" G TO UNIT HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.
- 2. PHASE 2: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. EXTEND AND CONNECT 3/4" G TO WATER HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC
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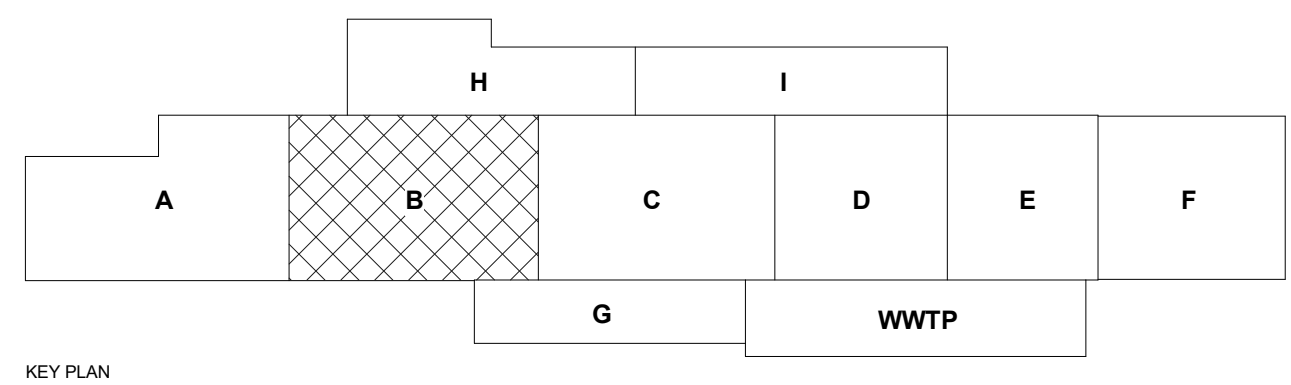
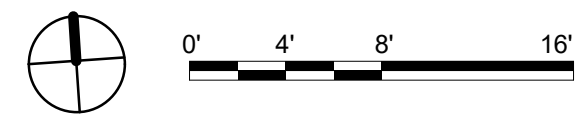
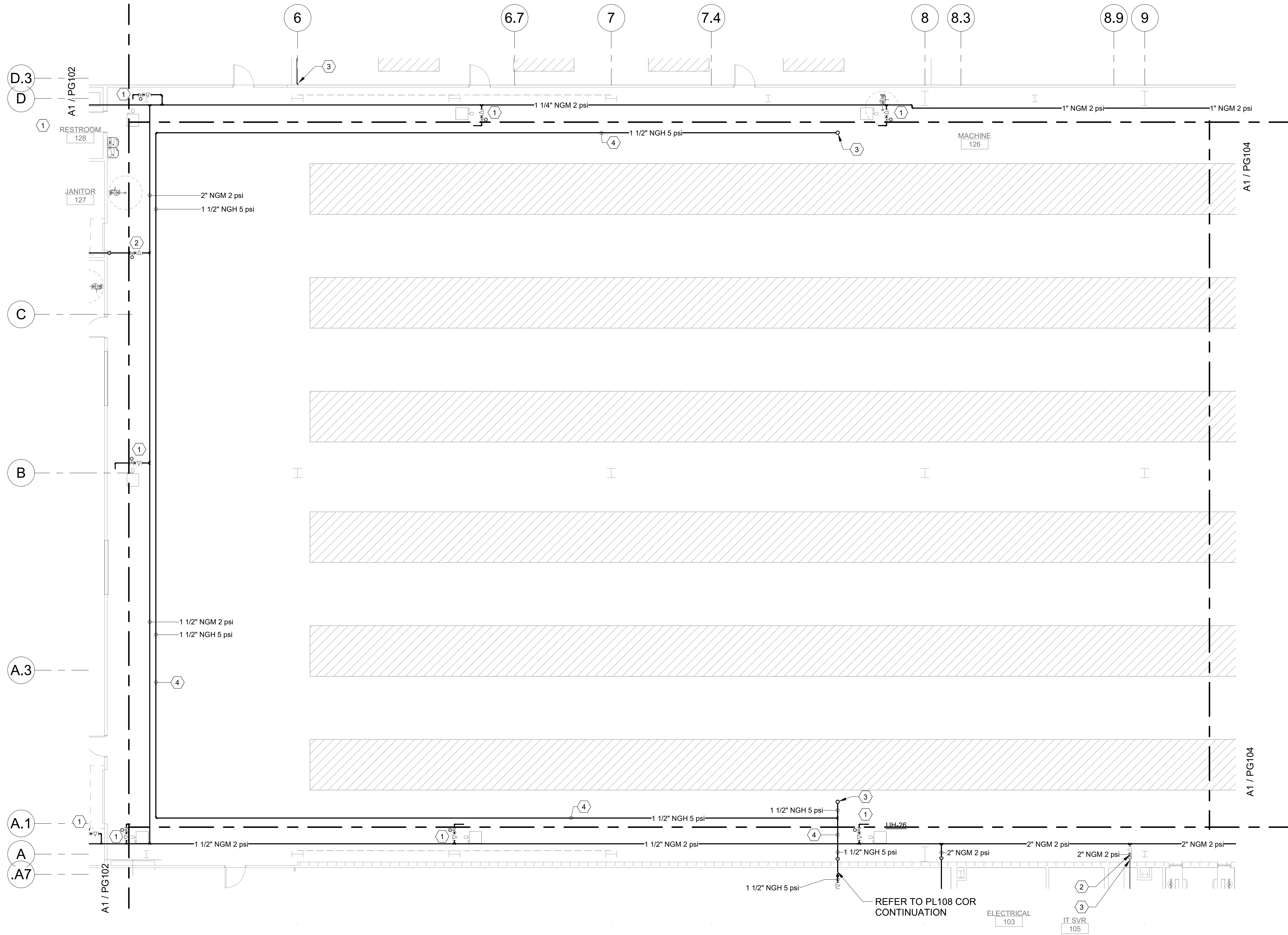
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SHEET TITLE
PIPED GASES FLOOR PLAN - AREA A COMP.

SHEET NUMBER
PG102
Sequence of

(A1) PIPED GASES FIRST FLOOR PLAN - AREA B FACTORY
1/8" = 1'-0"



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- INSTALL GAS PIPING IN FACTORY AREA AS PART OF PHASE 2.

SHEET KEYNOTES

- PHASE 2: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. EXTEND AND CONNECT 3/4" G TO UNIT HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.
- PHASE 2: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. EXTEND AND CONNECT 3/4" G TO WATER HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.
- PHASE 3: ROUTE 1-1/2" 5 PSI GAS PIPING UP THRU ROOF ABOVE. REFER TO SHEET PL122 FOR CONTINUATION.
- PHASE 3: ROUTE 5 PSI GAS PIPING IN CEILING SPACE. FIELD COORDINATE ROUTING.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



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Albuquerque, NM 87110
Tel 505.226.2565
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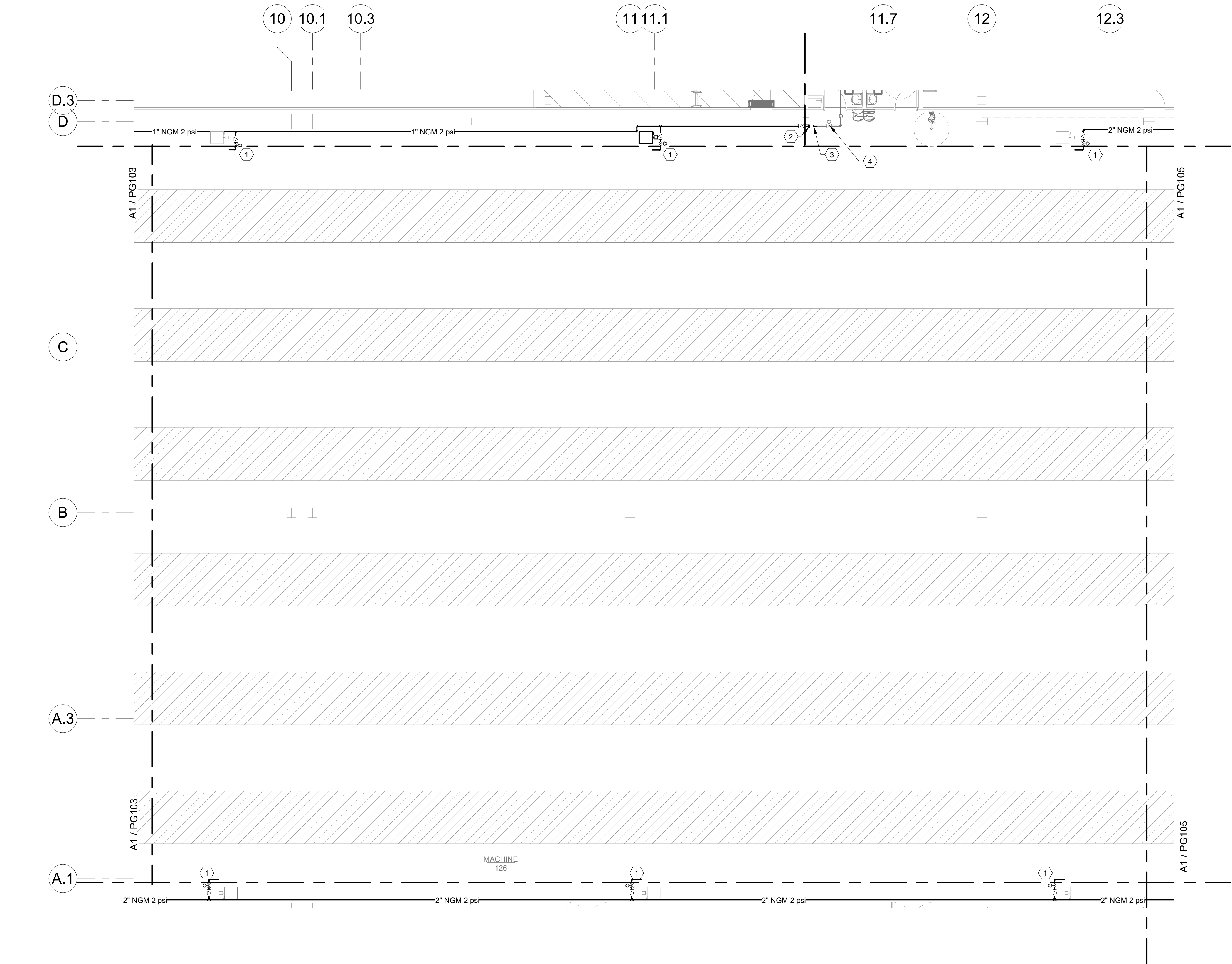
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**PIPED GASES
FLOOR PLAN -
AREA B FACTORY**

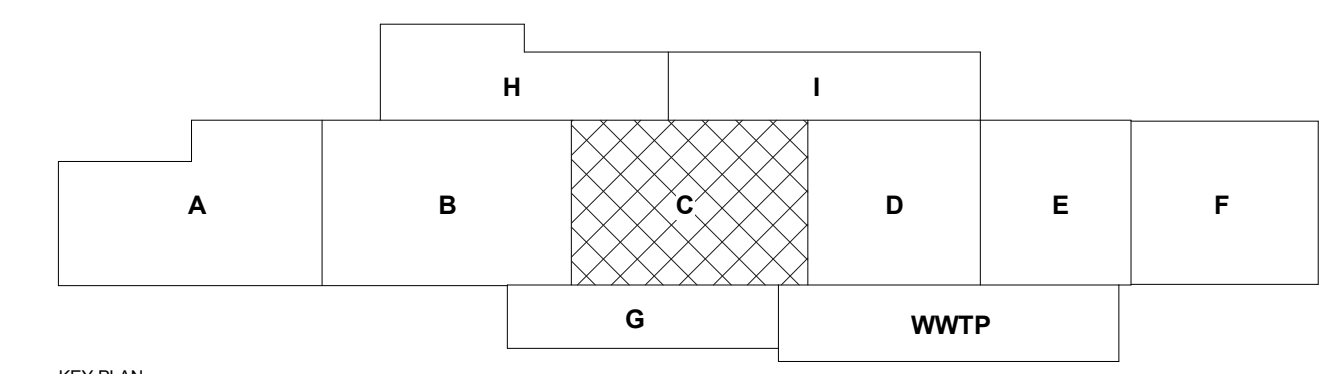
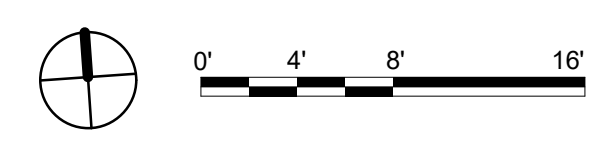
SHEET NUMBER

PG103

Sequence of



A1 PIPED GASES FIRST FLOOR PLAN - AREA C FACTORY
1/8" = 1'-0"




GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. INSTALL GAS PIPING IN FACTORY AREA AS PART OF PHASE 2.

SHEET KEYNOTES

- 1. PHASE 2: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. EXTEND AND CONNECT 3/4" G TO UNIT HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.
- 2. PHASE 2: VALVE AND CAP GAS PIPING IN CEILING SPACE TO ALLOW FOR CONNECTION IN PHASE 3.
- 3. PHASE 3: CONNECT AND EXTEND 2 PSI GAS PIPING FORMER CLEANING AND STORAGE SPACE.
- 4. PHASE 3: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. AND SHALL ACCOMMODATE A CONNECTED LOAD OF 100 CFH.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
OWNER:
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INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC
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Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

CONSULTANT INFO & LOGO

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Albuquerque, NM 87109 | 505.883.4111 | www.bpcos.com
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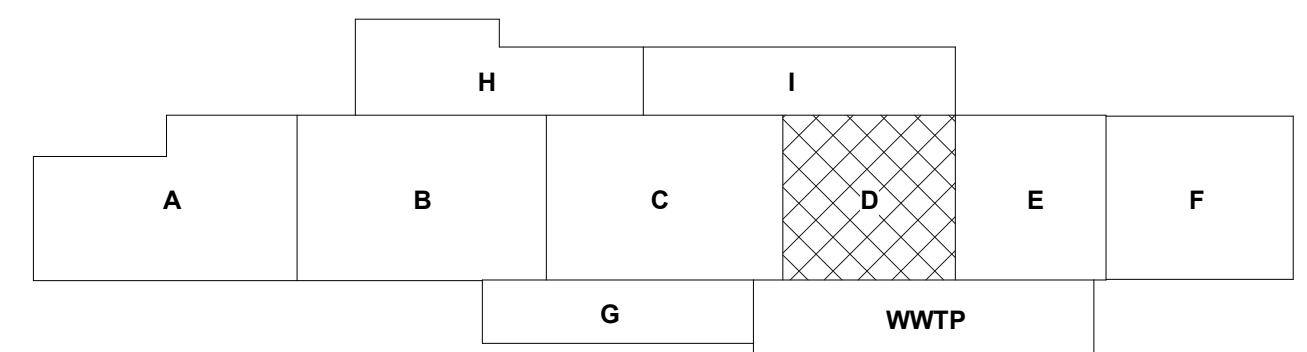
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SHEET TITLE
PIPED GASES FLOOR PLAN - AREA C FACTORY

SHEET NUMBER
PG104
Sequence of



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
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SHEET TITLE

**PIPED GASES
FLOOR PLAN -
AREA D FACTORY**

SHEET NUMBER

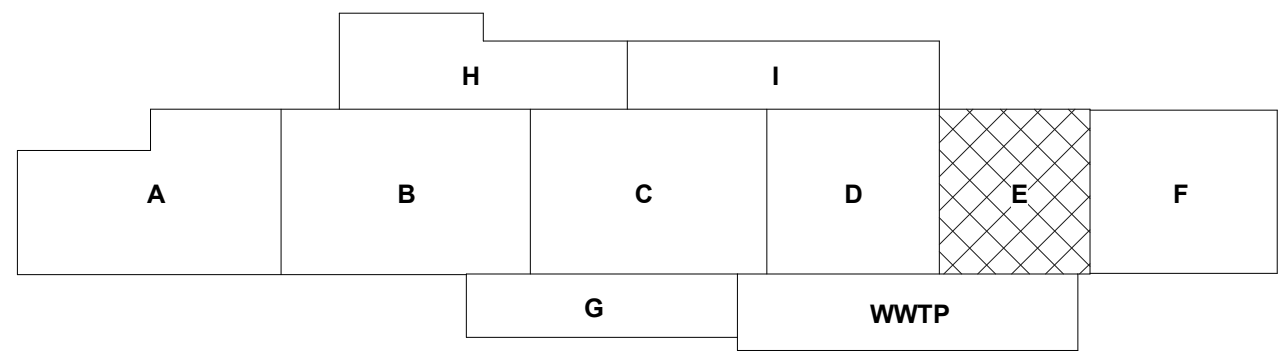
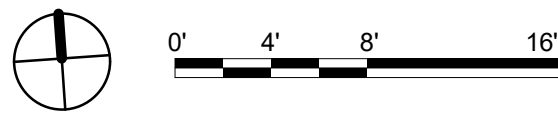
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Bridgers & Paxton Project No. 8286 3/25/2022 12:00:29 PM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt

A1 PIPED GASES FIRST FLOOR PLAN - AREA E FACTORY

1/8" = 1'-0"



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
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- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- INSTALL GAS PIPING IN FACTORY AREA AS PART OF PHASE 2.

SHEET KEYNOTES

- PHASE 2: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. EXTEND AND CONNECT 3/4" G TO UNIT HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.
- PHASE 2: VALVE AND CAP GAS PIPING IN CEILING SPACE TO ALLOW FOR CONNECTION IN PHASE 3.
- PHASE 3: CONNECT AND EXTEND 2 PSI GAS PIPING TO WAREHOUSE SPACE.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



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Albuquerque, NM 87110
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SHEET TITLE

PIPED GASES
FLOOR PLAN -
AREA E FACTORY

SHEET NUMBER

PG106

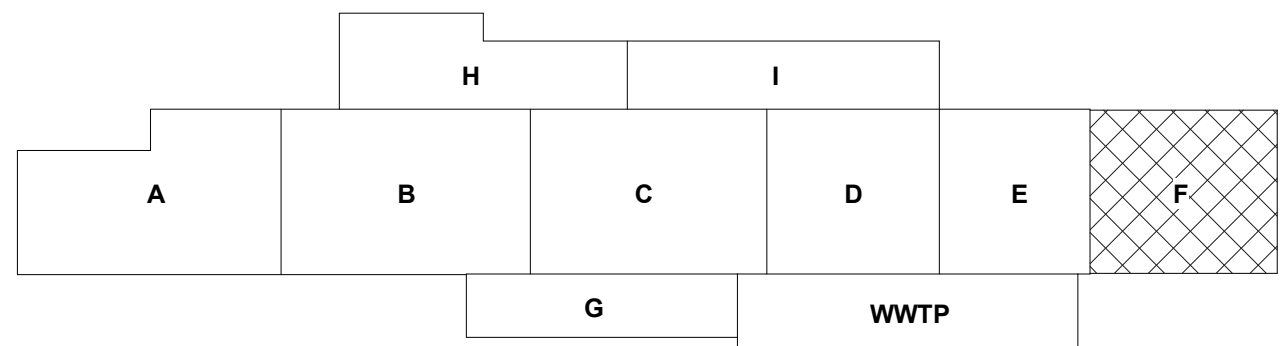
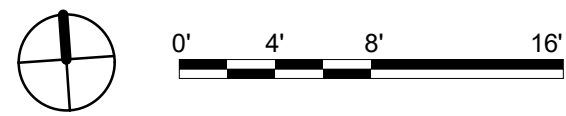
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(A1) PIPED GASES FIRST FLOOR PLAN - AREA F WAREHOUSE

1/8" = 1'-0"



KEY PLAN

GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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- H. INSTALL GAS PIPING IN FACTORY AREA AS PART OF PHASE 2.

SHEET KEYNOTES

1. PHASE 3: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. EXTEND AND CONNECT 3/4" G TO UNIT HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
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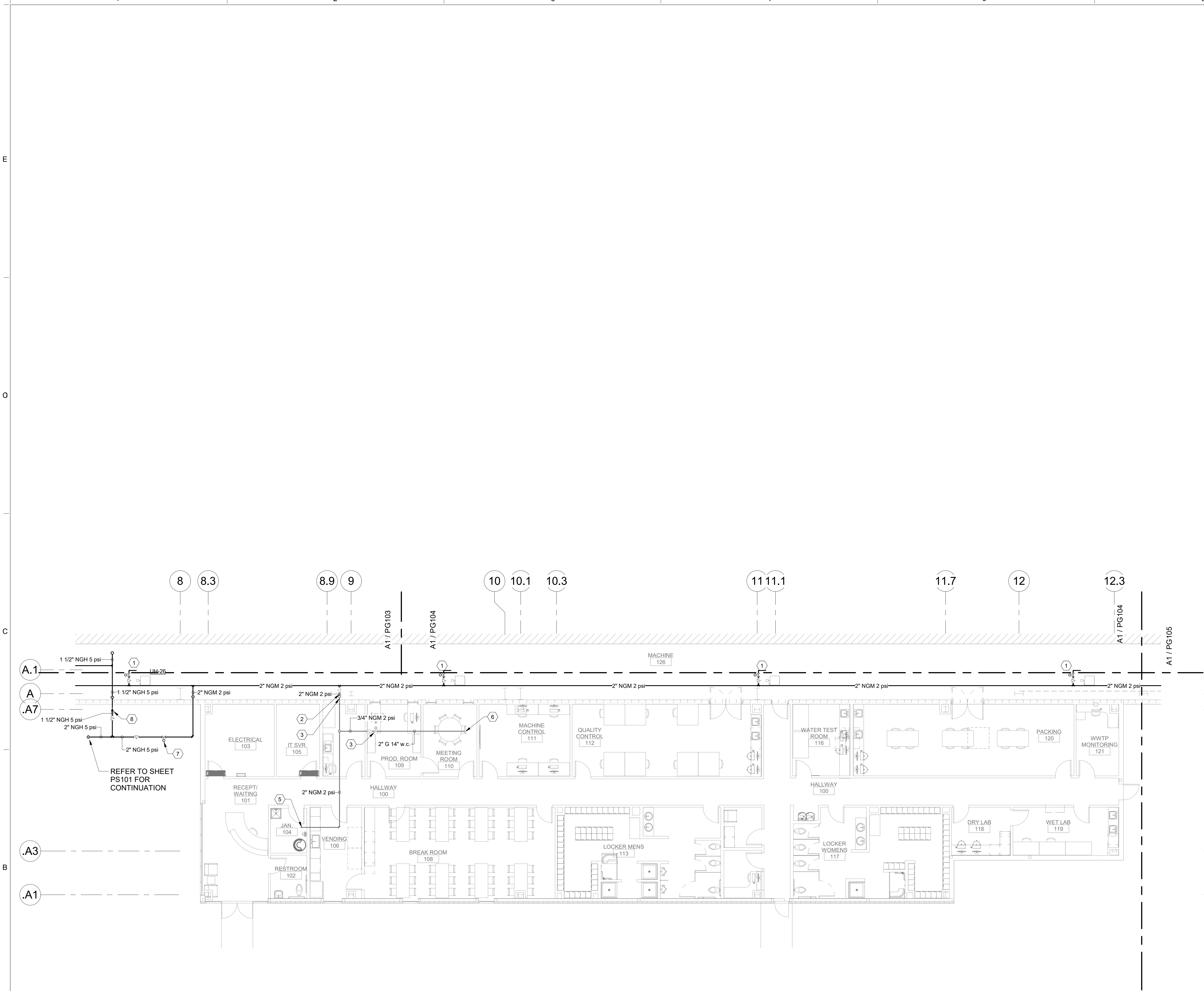
**PIPED GASES
FLOOR PLAN -
AREA F
WAREHOUSE**

SHEET NUMBER

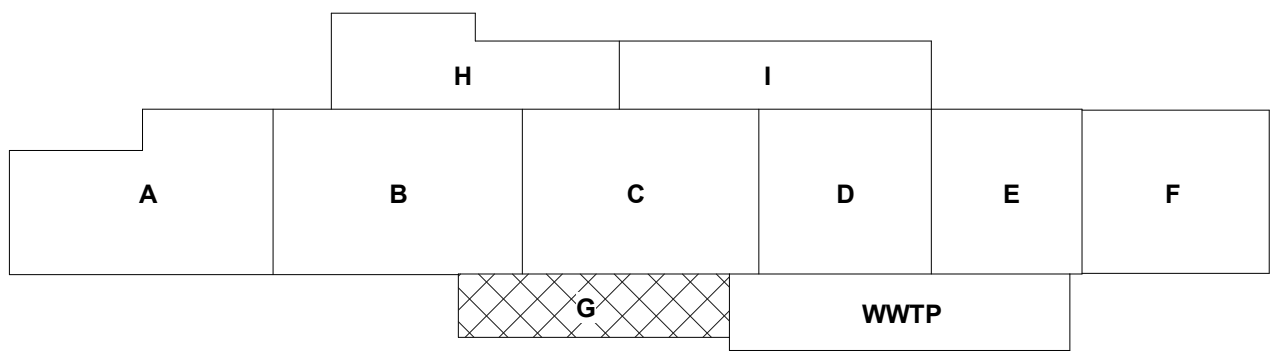
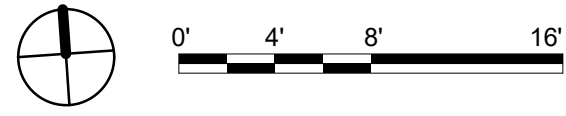
PG107

Sequence of

3/25/2022 12:00:30 PM



A1 PIPED GASES FIRST FLOOR PLAN - AREA G ADMINISTRATION
1/8" = 1'-0"



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. INSTALL GAS PIPING IN FACTORY AREA AS PART OF PHASE 2.
- I. INSTALL GAS PIPING IN ADMINISTRATION AREA AS PART OF PHASE 3.

SHEET KEYNOTES

- 1. PHASE 2: VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. EXTEND AND CONNECT 3/4" G TO UNIT HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.
- 2. PHASE 2: VALVE AND CAP GAS PIPING IN CEILING SPACE.
- 3. PHASE 3: CONNECT AND EXTEND 2 PSI GAS PIPING TO ADMINISTRATION AREA CEILING SPACE.
- 4. PHASE 3: VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C.
- 5. PHASE 3: ROUTE 3/4" 2PSI PIPING TO WATER HEATER ROOM. PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. EXTEND AND CONNECT 1" G TO WATER HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.
- 6. PHASE 3: ROUTE 2" G PIPING UP THRU ROOF ABOVE. REFER TO SHEET PL127 FOR CONTINUATION.
- 7. PHASE 2: VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 2 PSI.
- 8. PHASE 2: VALVE AND CAP 1-1/2" 5 PSI GAS PIPING TO ALLOW FOR CONNECTION IN PHASE 3.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



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PROJECT NUMBER: 2020.017
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SHEET TITLE

PIPED GASES
FLOOR PLAN -
AREA G ADMIN

SHEET NUMBER

PG108

Sequence of

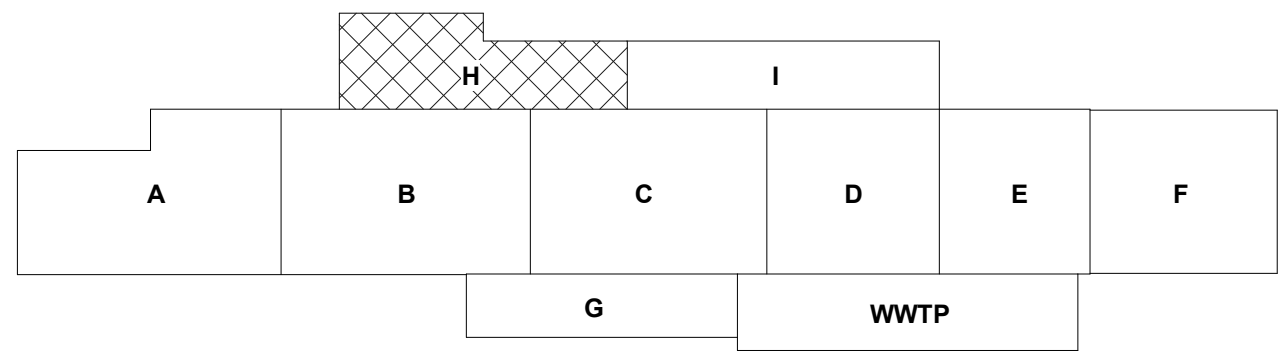
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Bridgers & Paxton Project No. 8286

A
B
C
E
F
O
22
D

(A1) PIPED GASES FLOOR PLAN - AREA H MECHANICAL

1/8" = 1'-0"



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- INSTALL GAS PIPING IN FACTORY AREA AS PART OF PHASE 2. EXTEND TO MECHANICAL ROOM AS PART OF PHASE 3.

SHEET KEYNOTES

- PHASE 2: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 1/4" W.C. EXTEND AND CONNECT 3/4" G TO UNIT HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.
- PHASE 2: VALVE AND CAP GAS PIPING IN CEILING SPACE AS PART OF PHASE 2.
- PHASE 2: CAP 6" 50 PSI GAS PIPING.
- PHASE 3: ROUTE 5 PSI GAS PIPING IN CEILING SPACE.
- PHASE 3: ROUTE 1-1/2" 5 PSI GAS PIPING UP THRU ROOF.
- PHASE 3: EXTEND PIPING TO BOILERS AND CONNECT PER MANUFACTURERS REQUIREMENTS.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
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SHEET TITLE

**PIPED GASES
FLOOR PLAN -
AREA H MECH**

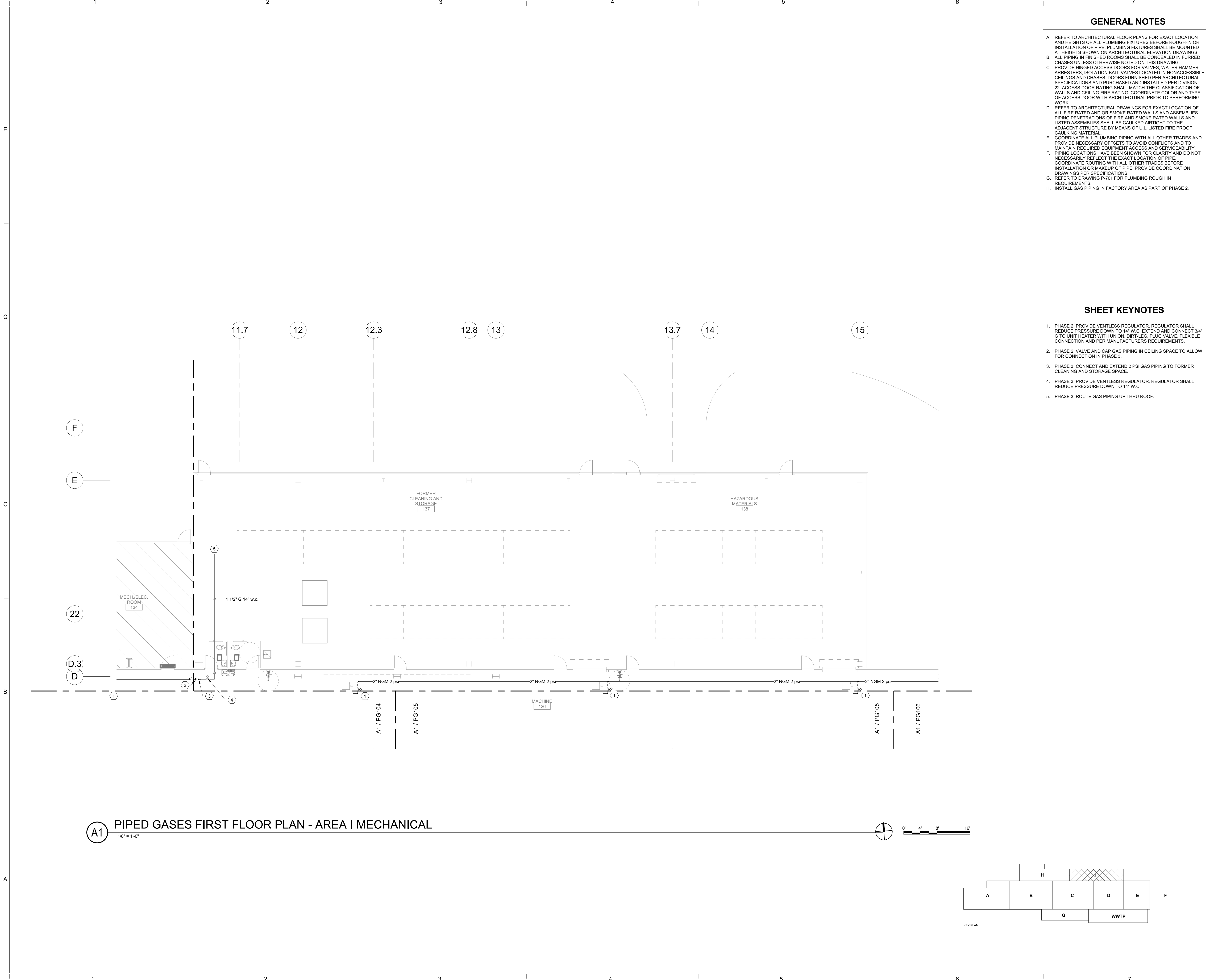
SHEET NUMBER

PG109

Sequence of

3/25/2022 12:00:34 PM

Bridgers & Paxton Project No. 8286 3/25/2022 12:00:36 PM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. INSTALL GAS PIPING IN FACTORY AREA AS PART OF PHASE 2.

SHEET KEYNOTES

1. PHASE 2: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C. EXTEND AND CONNECT 3/4" G TO UNIT HEATER WITH UNION, DIRT-LEG, PLUG VALVE, FLEXIBLE CONNECTION AND PER MANUFACTURERS REQUIREMENTS.
2. PHASE 2: VALVE AND CAP GAS PIPING IN CEILING SPACE TO ALLOW FOR CONNECTION IN PHASE 3.
3. PHASE 3: CONNECT AND EXTEND 2 PSI GAS PIPING TO FORMER CLEANING AND STORAGE SPACE.
4. PHASE 3: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14" W.C.
5. PHASE 3: ROUTE GAS PIPING UP THRU ROOF.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

50% CONSTRUCTION DOCUMENTS

FEBRUARY 16, 2022

OWNER:
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SHEET TITLE

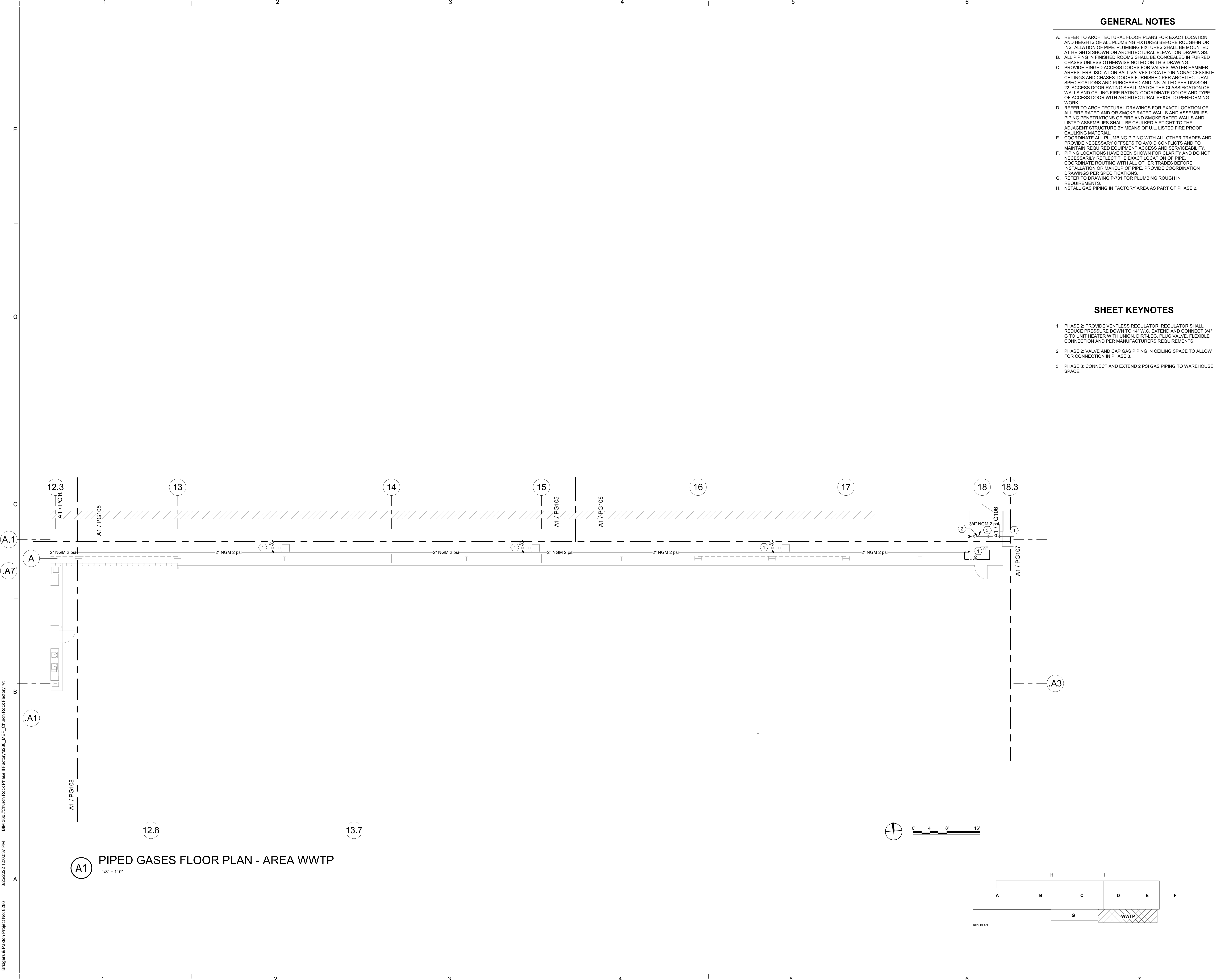
PIPED GASES FLOOR PLAN - AREA I MECH

SHEET NUMBER

PG110

Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 12:00:37 PM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. NSTALL GAS PIPING IN FACTORY AREA AS PART OF PHASE 2.

SHEET KEYNOTES

- 1. PHASE 2: PROVIDE VENTLESS REGULATOR. REGULATOR SHALL REDUCE PRESSURE DOWN TO 14\"/>
- 2. PHASE 2: VALVE AND CAP GAS PIPING IN CEILING SPACE TO ALLOW FOR CONNECTION IN PHASE 3.
- 3. PHASE 3: CONNECT AND EXTEND 2 PSI GAS PIPING TO WAREHOUSE SPACE.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
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SHEET TITLE

PIPED GASES FLOOR PLAN - AREA WWTP

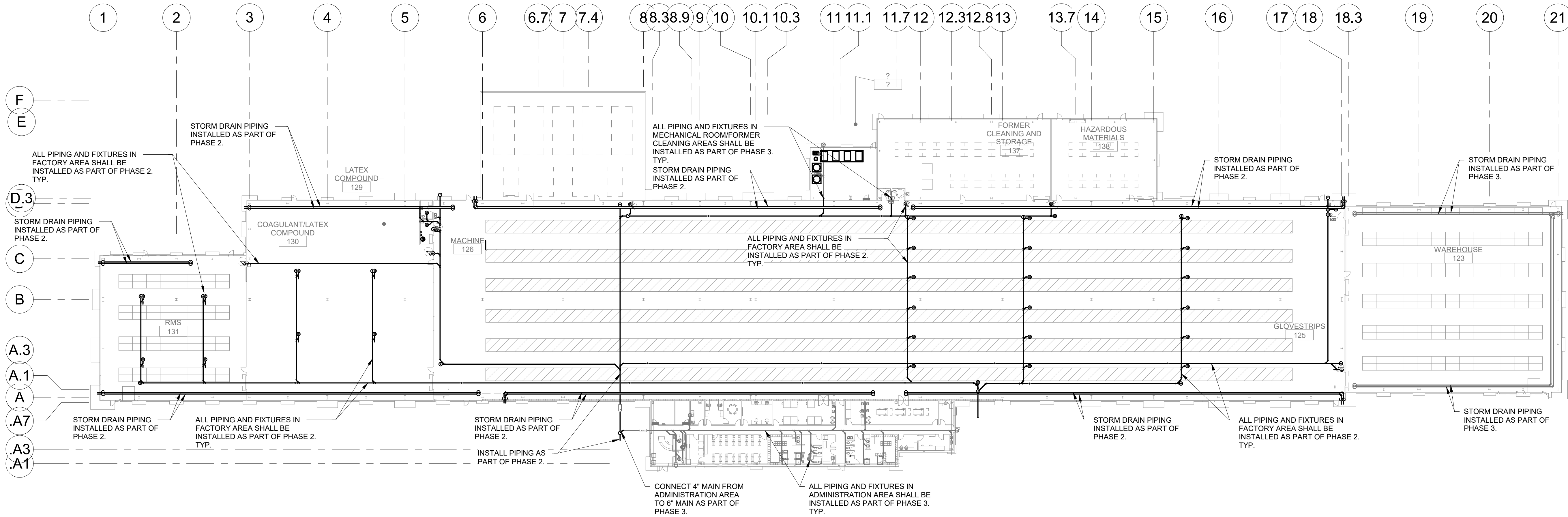
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PG111

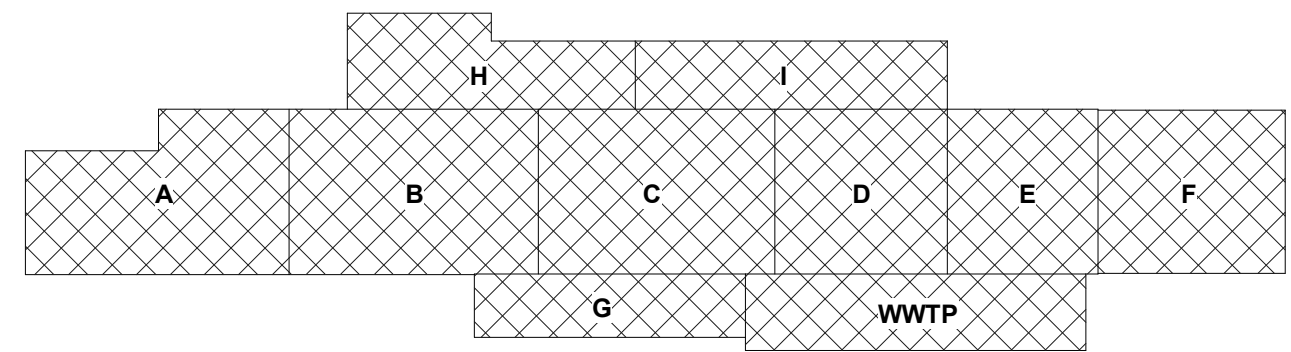
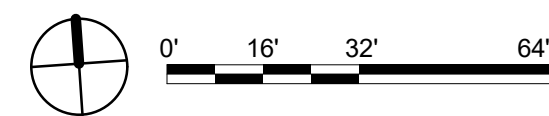
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Bridgers & Paxton Project No. 8286

E
O
C
B
A



WASTE & VENT FIRST FLOOR PLAN
1/32" = 1'-0"



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. REFER TO SHEET ENLARGEMENTS FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

- 1. XXXX

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
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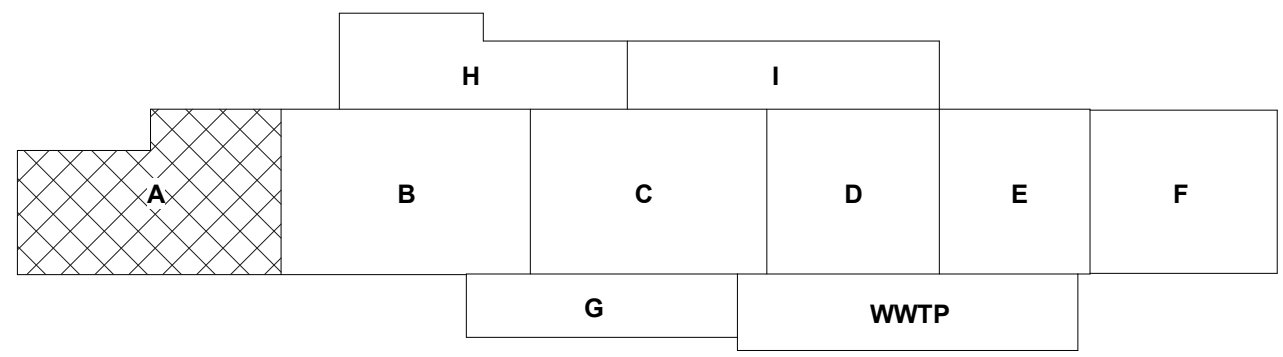
SHEET TITLE

WASTE & VENT FLOOR PLAN

SHEET NUMBER

PL101

Sequence of



A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE WORK ON INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS. B. PLUMBING FIXTURES SHALL BE INSTALLED TO MATCH THE EXISTING CEILING UNLESS OTHERWISE NOTED ON THIS DRAWING. PIPING HINGED ACCESS DOORS FOR VALVES, WATER HAMMERS, C. AND OTHER ACCESSORIES SHALL BE INSTALLED TO MATCH THE EXISTING CEILING AND CHASES. DOORS FURNISHED PER ARCHITECTURAL DRAWINGS SHALL BE INSTALLED TO MATCH THE EXISTING CEILING. 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF FINISH WITH THE EXISTING WALLS AND CEILING. D. WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHT OF RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND CEILING SHALL BE PROTECTED TO MATCH THE RATING OF THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CULKING MATERIAL. 2. PROTECT PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN PROPER CLEARANCES. 3. PROVIDE PROTECTIVE COATING TO PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. 4. PROVIDE PROTECTIVE COATING TO ALL PIPING LOCATIONS NOT INSTALLED OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS. 5. PROVIDE PROTECTIVE COATING TO PLUMBING ROUGH IN REQUIREMENTS. E. ALL PLUMBING FIXTURES SHALL BE INSTALLED AS PART OF PHASE 2.

1. PHASE 2: TERMINATE RD/ORD PIPING THRU WALL AT 12" ABOVE GRADE WITH NICKEL BRONZE DOWN SPOUT NOZZLE.
2. PHASE 2: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 2.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
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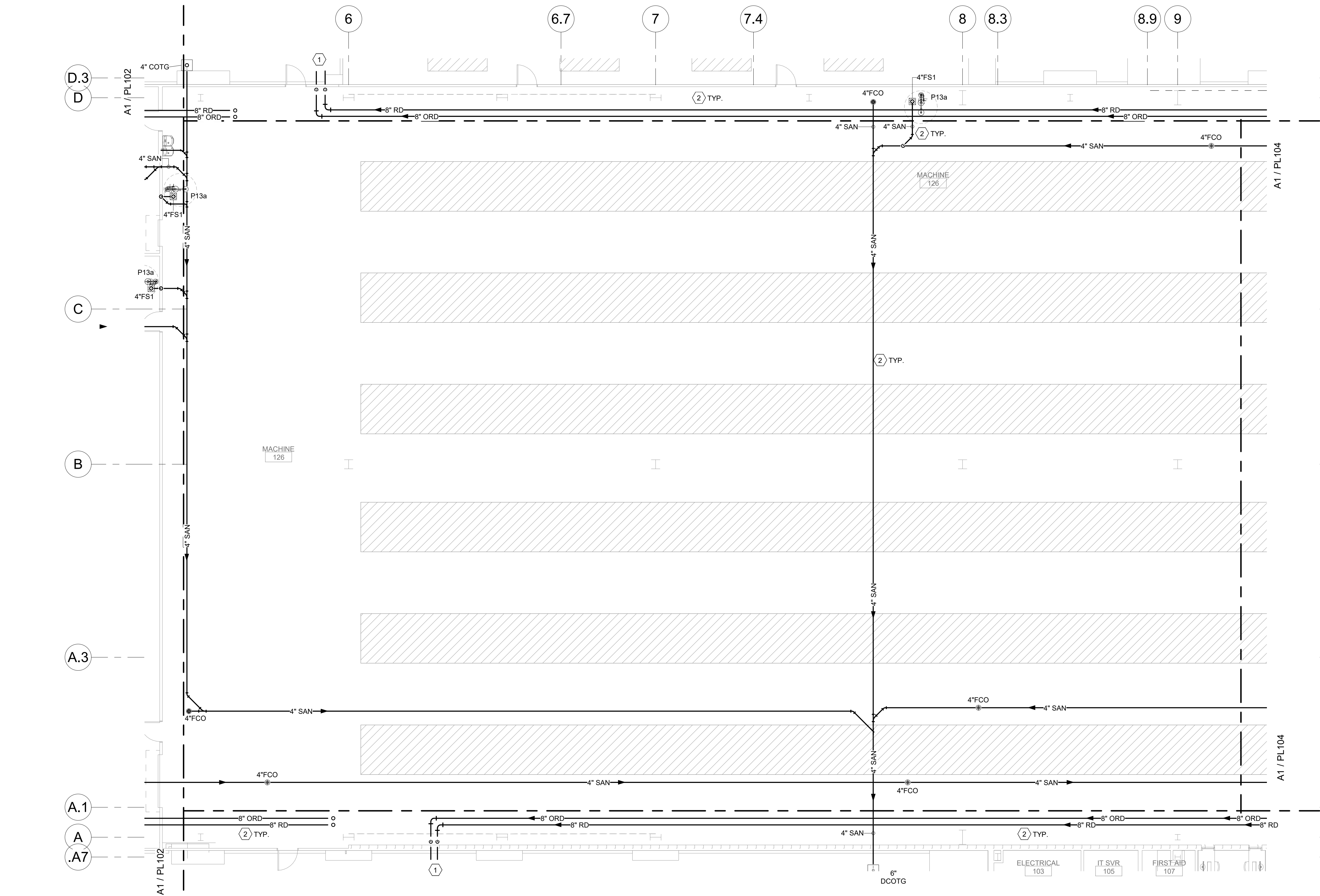
**WASTE & VENT
FLOOR PLAN -
AREA A COMP.**

SHEET NUMBER

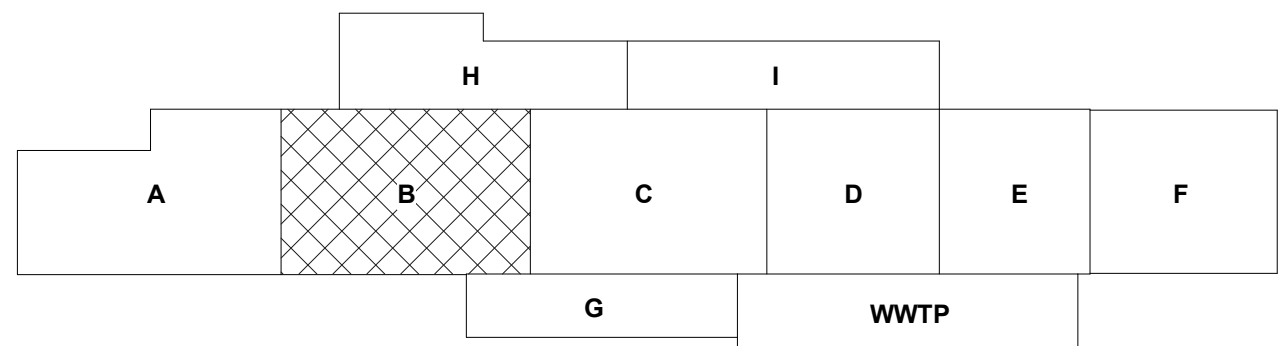
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3/25/2022 12:00:45 PM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt
Bridgers & Paxton Project No. 8286



(A1) WASTE & VENT FIRST FLOOR PLAN - AREA B FACTORY
1/8" = 1'-0"



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. ALL PIPING IN FACTORY AREA SHALL BE INSTALLED AS PART OF PHASE 2.

SHEET KEYNOTES

1. PHASE 2: TERMINATE RD/ORD PIPING THRU WALL AT 12" ABOVE GRADE WITH NICKEL BRONZE DOWN SPOUT NOZZLE.
2. PHASE 2: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 2.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
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PROJECT NUMBER: 2020.017
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SHEET TITLE

**WASTE & VENT
FLOOR PLAN -
AREA B FACTORY**

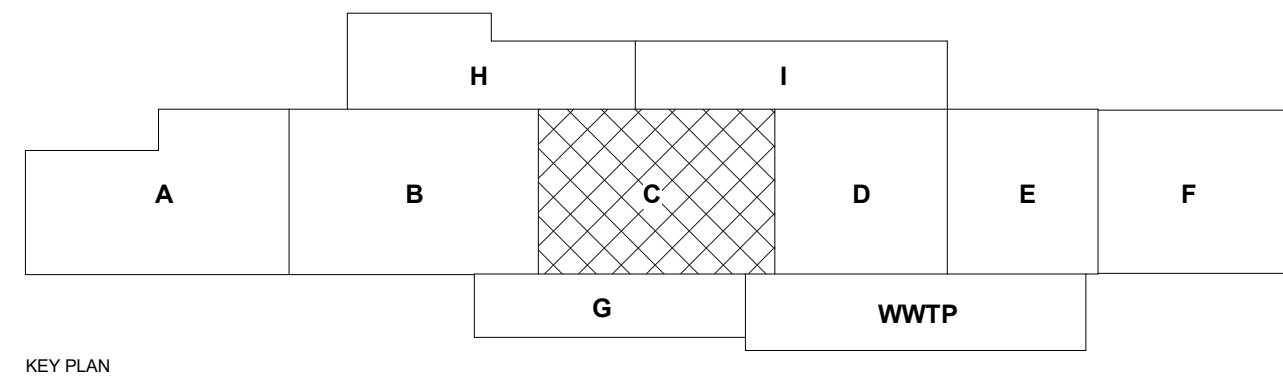
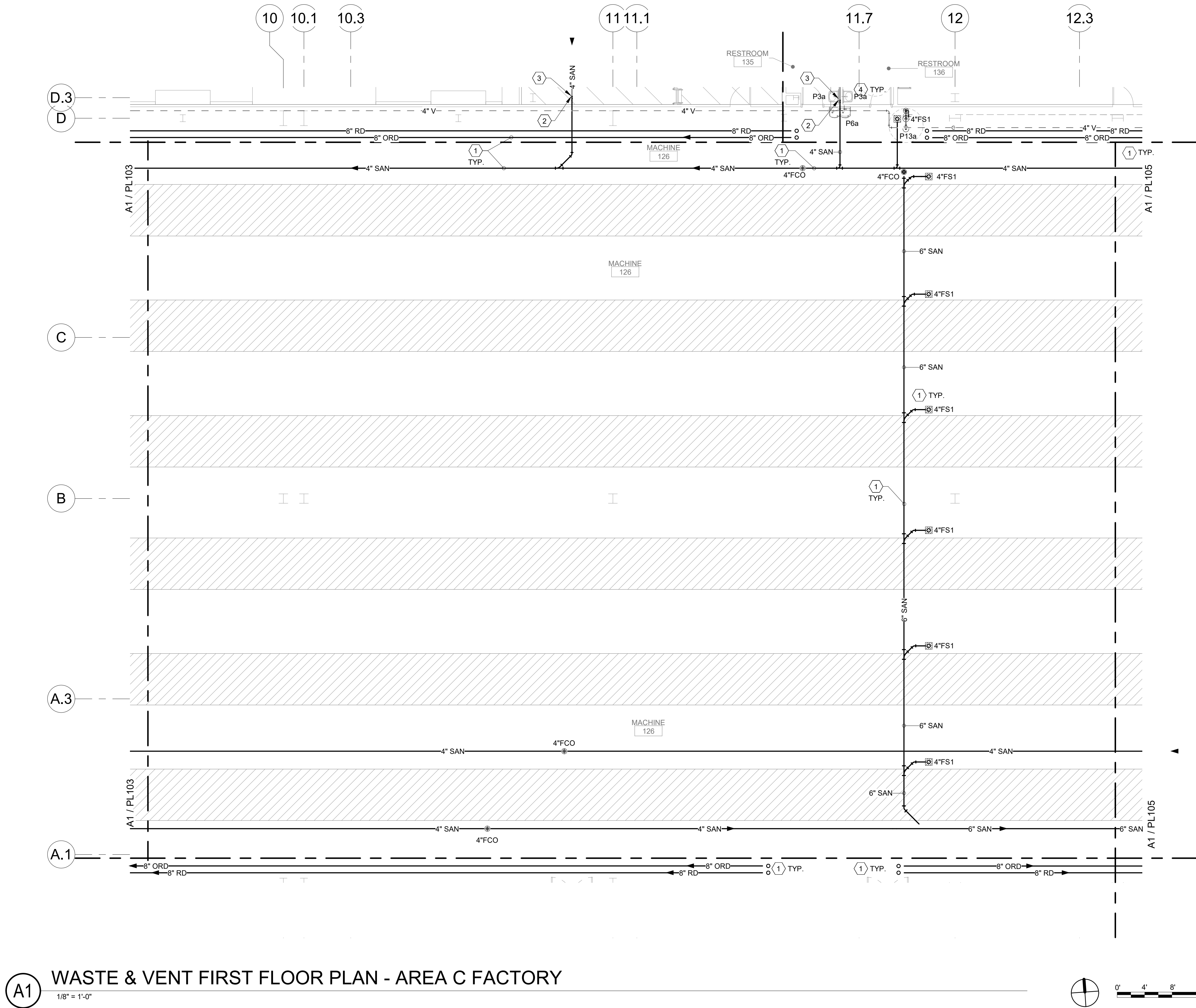
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PL103

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Bridgers & Paxton Project No. 8286



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- ALL PIPING IN FACTORY AREA SHALL BE INSTALLED AS PART OF PHASE 2.

SHEET KEYNOTES

- PHASE 2: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 2.
- PHASE 2: CAP SANITARY PIPING BELOW GRADE TO ALLOW FOR CONNECTION IN PHASE 3.
- PHASE 3: CONNECT AND EXTEND SANITARY PIPING TO MECH SPACE. SIZE PER PLAN.
- PHASE 3: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 3.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



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SHEET TITLE

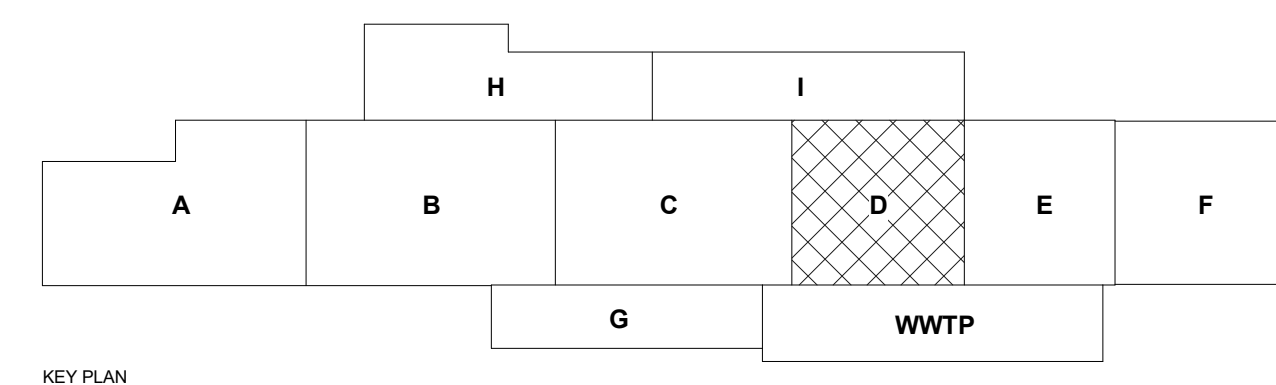
WASTE & VENT
FLOOR PLAN -
AREA C FACTORY

SHEET NUMBER

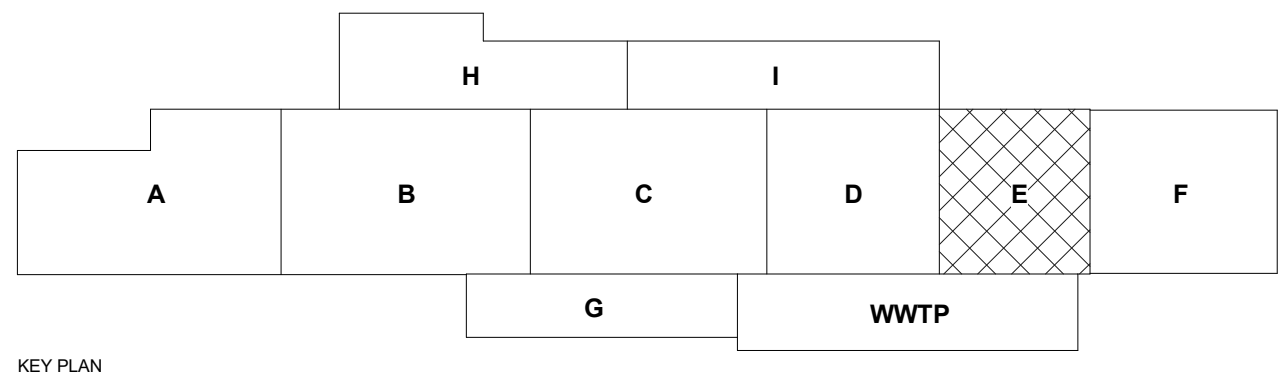
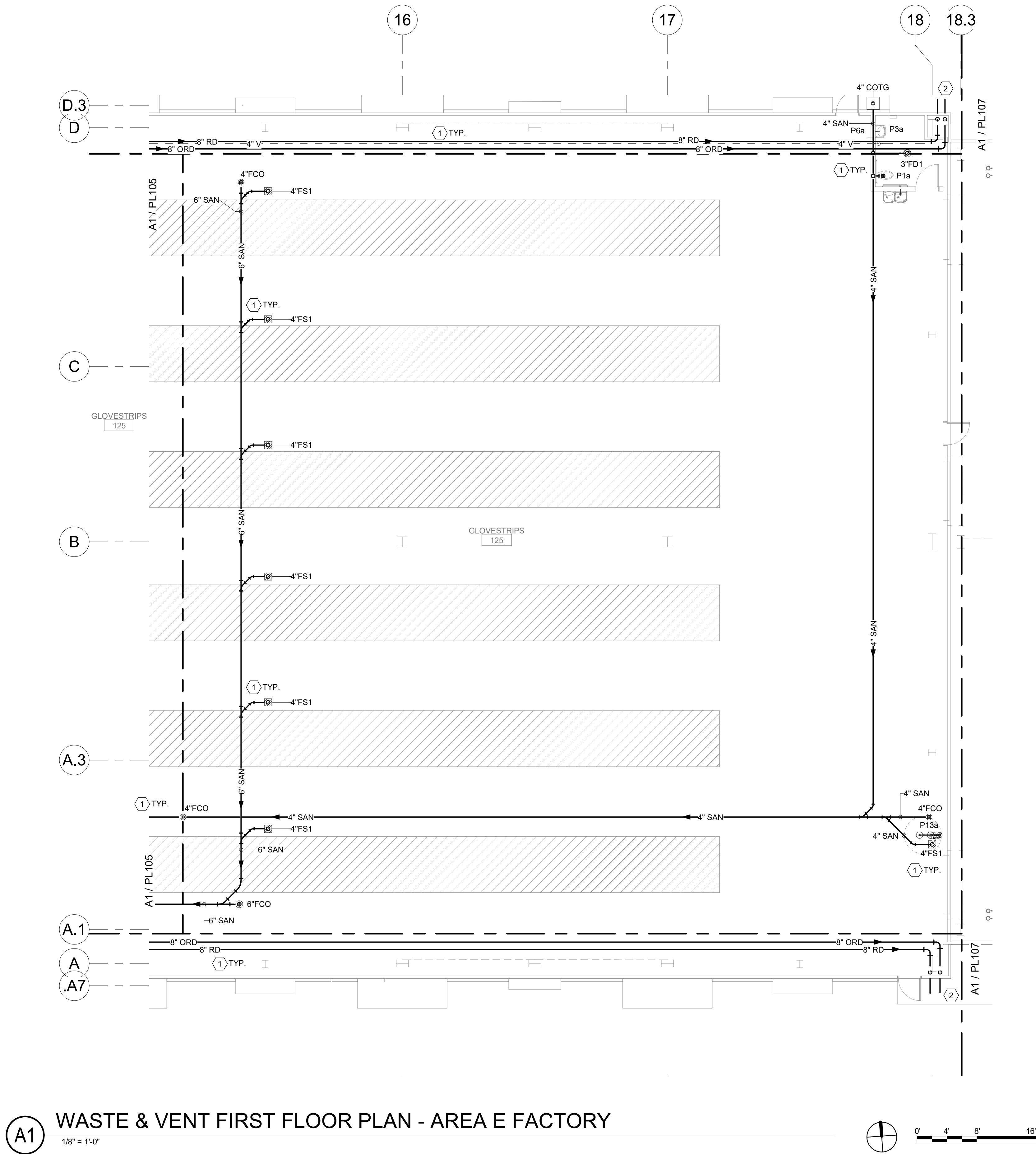
PL104

Sequence of

3/25/2022 12:00:46 PM



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GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- ALL PIPING IN FACTORY AREA SHALL BE INSTALLED AS PART OF PHASE 2.

SHEET KEYNOTES

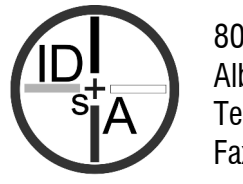
- PHASE 2: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 2.
- PHASE 2: TERMINATE RD/ORD PIPING THRU WALL AT 12" ABOVE GRADE WITH NICKEL BRONZE DOWN SPOUT NOZZLE.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



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SHEET TITLE

WASTE & VENT
FLOOR PLAN -
AREA E FACTORY

SHEET NUMBER

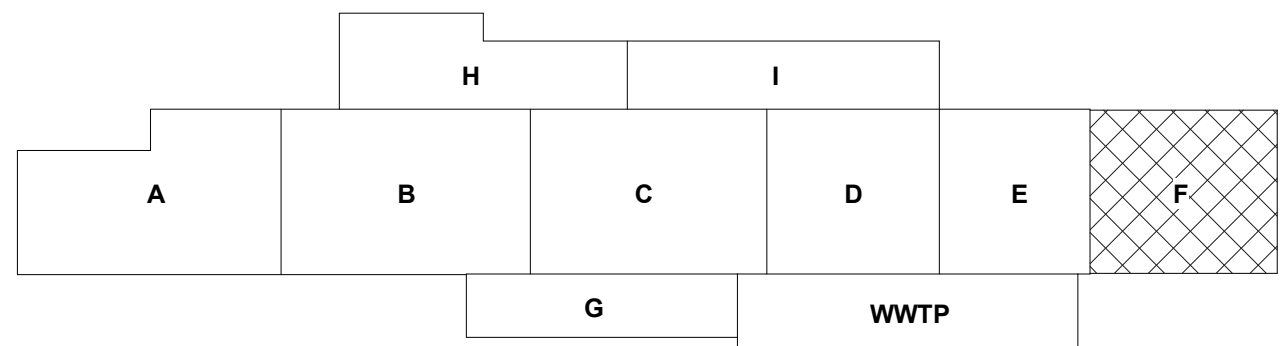
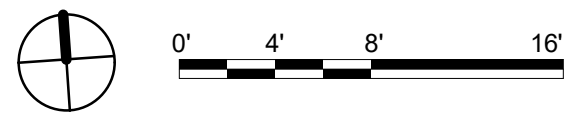
PL106

Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 12:00:50 PM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt

A1 WASTE & VENT FIRST FLOOR PLAN - AREA F WAREHOUSE

1/8" = 1'-0"



KEY PLAN

GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

SHEET KEYNOTES

1. PHASE 3: TERMINATE RD/ORD PIPING THRU WALL AT 12" ABOVE GRADE WITH NICKEL BRONZE DOWN SPOUT NOZZLE. SIZE PER PLAN.
2. PHASE 3: INSTALL RD/ORD IN WAREHOUSE SPACE AS PART OF PHASE 3.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

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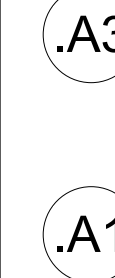
**WASTE & VENT
FLOOR PLAN -
AREA F
WAREHOUSE**

SHEET NUMBER

PL107

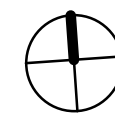
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(A1)

1/8" = 1'-0"



- G. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR FINISH. PROVIDE OTHER DETAILS AS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS. ALL TIGHTS IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED OR CONCEALED IN OTHER FINISHES.
- H. PROVIDE HUNG ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE AREAS. PROVIDE ACCESS DOORS TO ALL FIRE RATED WALLS, SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF THE WALL AND DOOR. PROVIDE ACCESS DOORS TO LOCATION AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- I. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND ASSEMBLIES SHALL BE PROTECTED WITH APPROVED FIRE RATED ADJUNCT MATERIAL BY MEANS OF U.L. LISTED FIRE PROOF ADJUNCT MATERIAL.
- J. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO PROVIDE REQUIRED EQUIPMENT ACCESS AND ACCESSIBILITY. PROVIDE PIPING WITH ALL OTHER TRADES FOR CLARITY OF WORK. DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. PROVIDE COORDINATION DRAWINGS TO ALL OTHER TRADES PRIOR TO BEGINNING INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- K. REFER TO SPECIFICATIONS P-701 FOR PLUMBING ROOMS AND REQUIREMENTS.
- L. ALL PIPING IN FACTORY AREA SHALL BE INSTALLED AS PART OF FACTORY AREA. ALL PIPING IN FINISH AREA SHALL BE INSTALLED AS PART OF PHASE 3.

1. PHASE 2: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 2.
2. PHASE 2, CAP SANITARY PIPING BELOW GRADE TO ALLOW FOR CONNECTION IN PHASE 3.
3. PHASE 3: CONNECT AND EXTEND SANITARY PIPING TO ADMIN AREA. SIZE PER PLAN.
4. PHASE 3: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 3.

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS

OWNER:
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SHEET TITLE

**WASTE & VENT
FLOOR PLAN -
AREA G ADMIN**

SHEET NUMBER

PL108

Sequence of

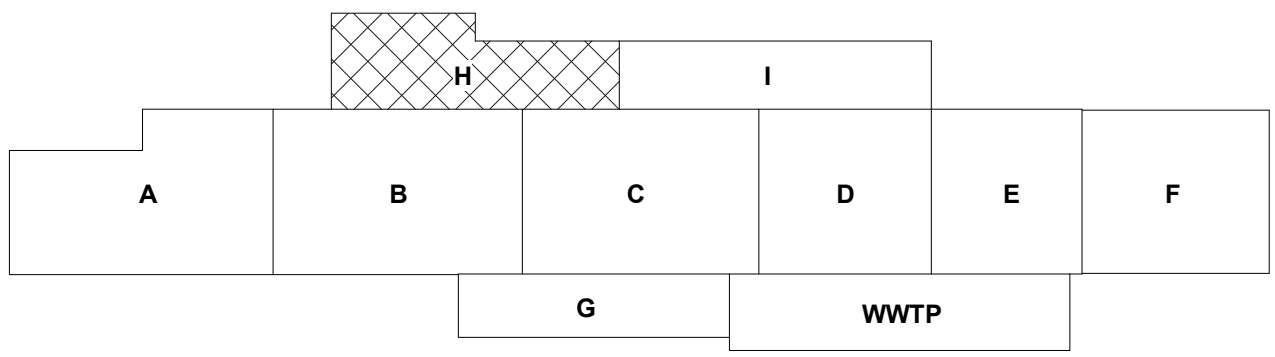
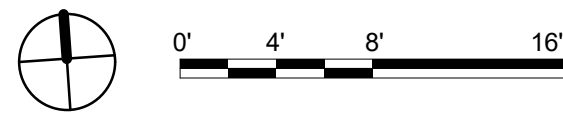
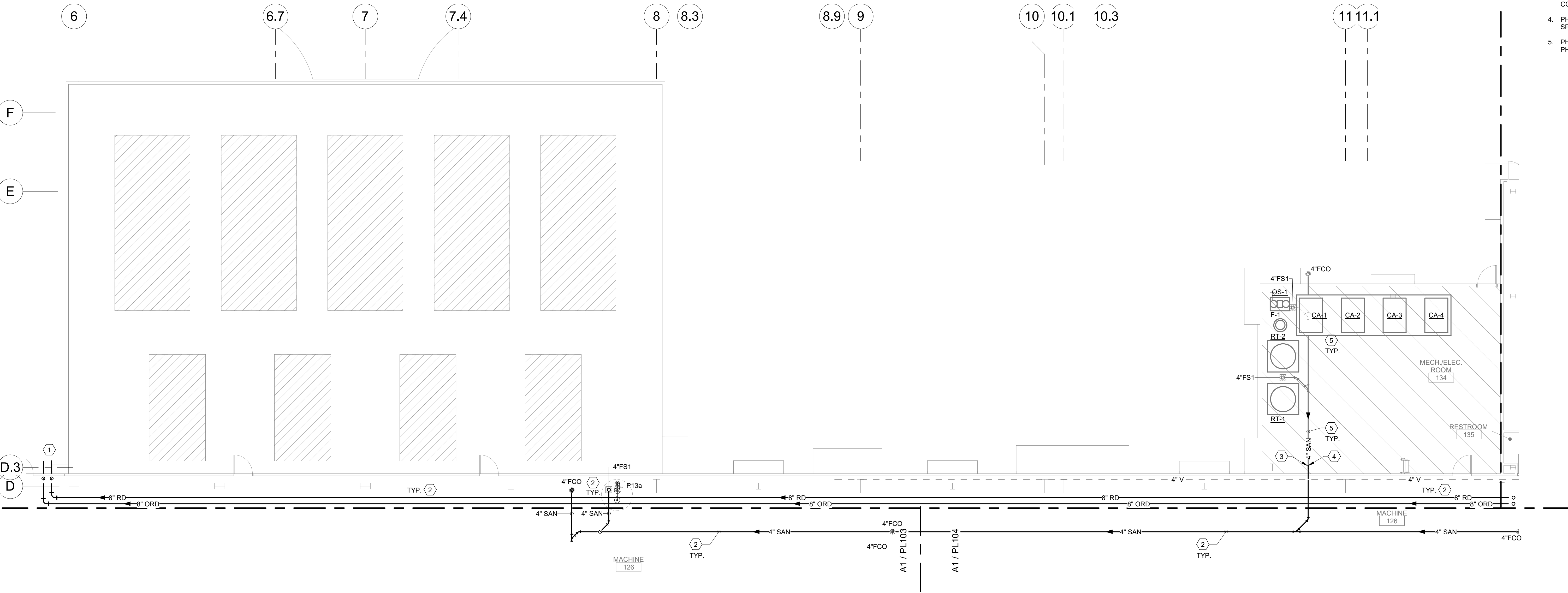
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Bridgers & Paxton Project No. 8286

A
B
C
E
F
O

(A1) WASTE & VENT FLOOR PLAN - AREA H MECHANICAL

1/8" = 1'-0"



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- ALL PIPING IN FACTORY AREA SHALL BE INSTALLED AS PART OF PHASE 2. ALL PIPING IN COMPRESSOR AREA SHALL BE INSTALLED AS PART OF PHASE 3.

SHEET KEYNOTES

- PHASE 2: TERMINATE RD/ORD PIPING THRU WALL AT 12" ABOVE GRADE WITH NICKEL BRONZE DOWN SPOUT NOZZLE.
- PHASE 2: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 2.
- PHASE 2: CAP SANITARY PIPING BELOW GRADE TO ALLOW FOR CONNECTION PHASE 3.
- PHASE 3: CONNECT AND EXTEND SANITARY PIPING TO MECH SPACE.
- PHASE 3: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 3.

CHURCH ROCK PHASE II FACTORY

**CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022**

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

**INDIGENOUS DESIGN STUDIO +
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SHEET TITLE

**WASTE & VENT
FLOOR PLAN -
AREA H MECH**

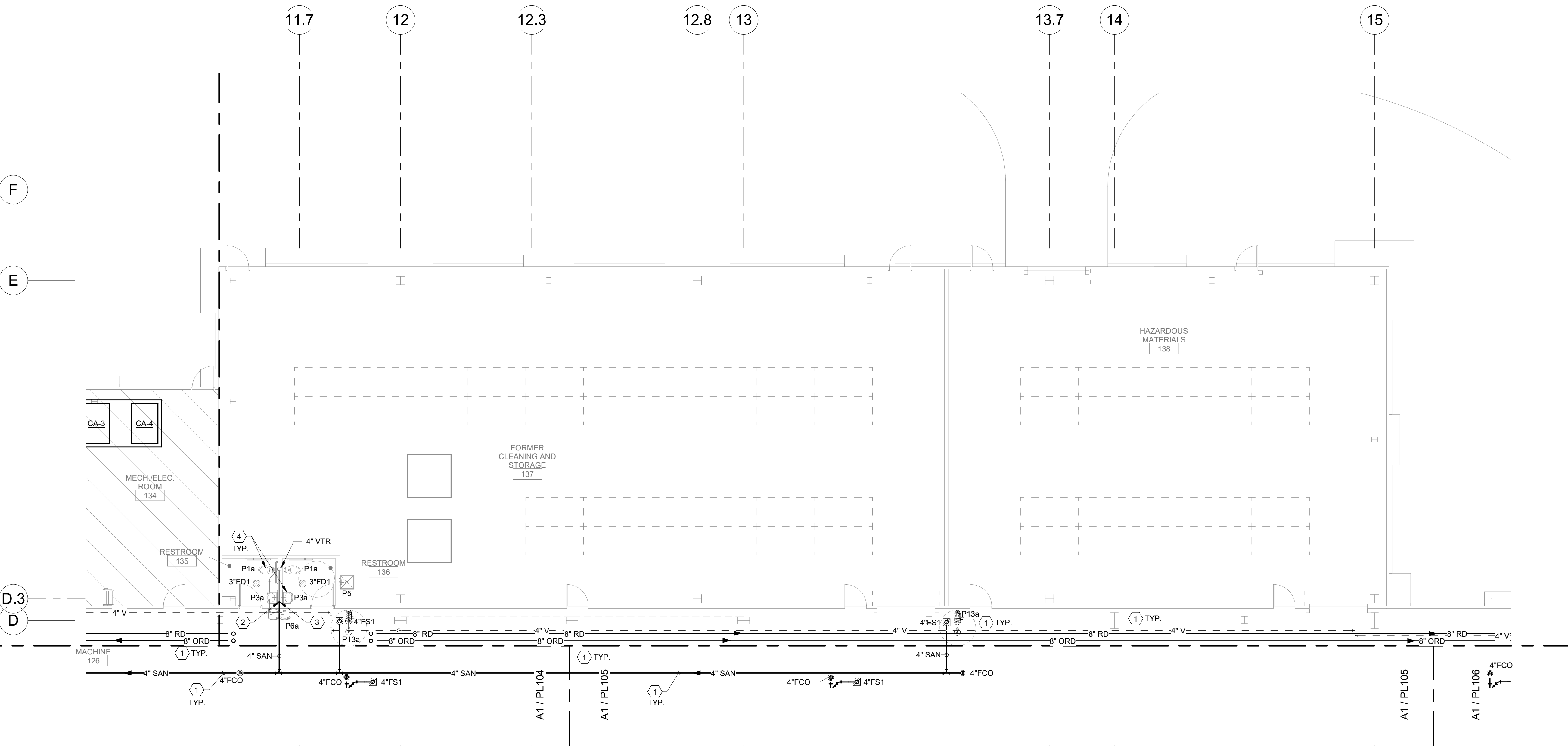
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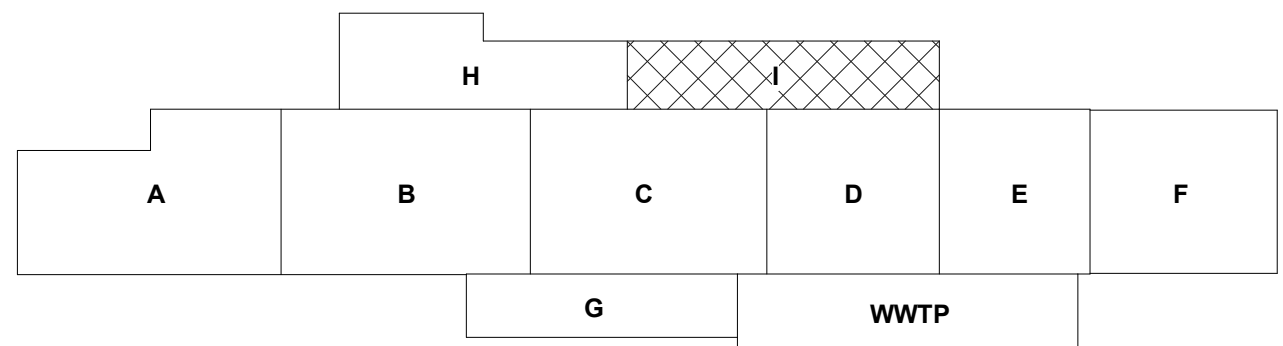
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A1 WASTE & VENT FIRST FLOOR PLAN - AREA I MECHANICAL
1/8" = 1'-0"



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- ALL PIPING IN FACTORY AREA SHALL BE INSTALLED AS PART OF PHASE 2. ALL PIPING IN RESTROOM AND FORMER STORAGE AREA SHALL BE INSTALLED AS PART OF PHASE 3.

SHEET KEYNOTES

- PHASE 2: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 2.
- PHASE 3: CAP SANITARY PIPING BELOW GRADE TO ALLOW FOR CONTINUATION IN PHASE 3.
- PHASE 3: CONNECT AND EXTEND SANITARY PIPING TO MECH SPACE.
- PHASE 3: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 3.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

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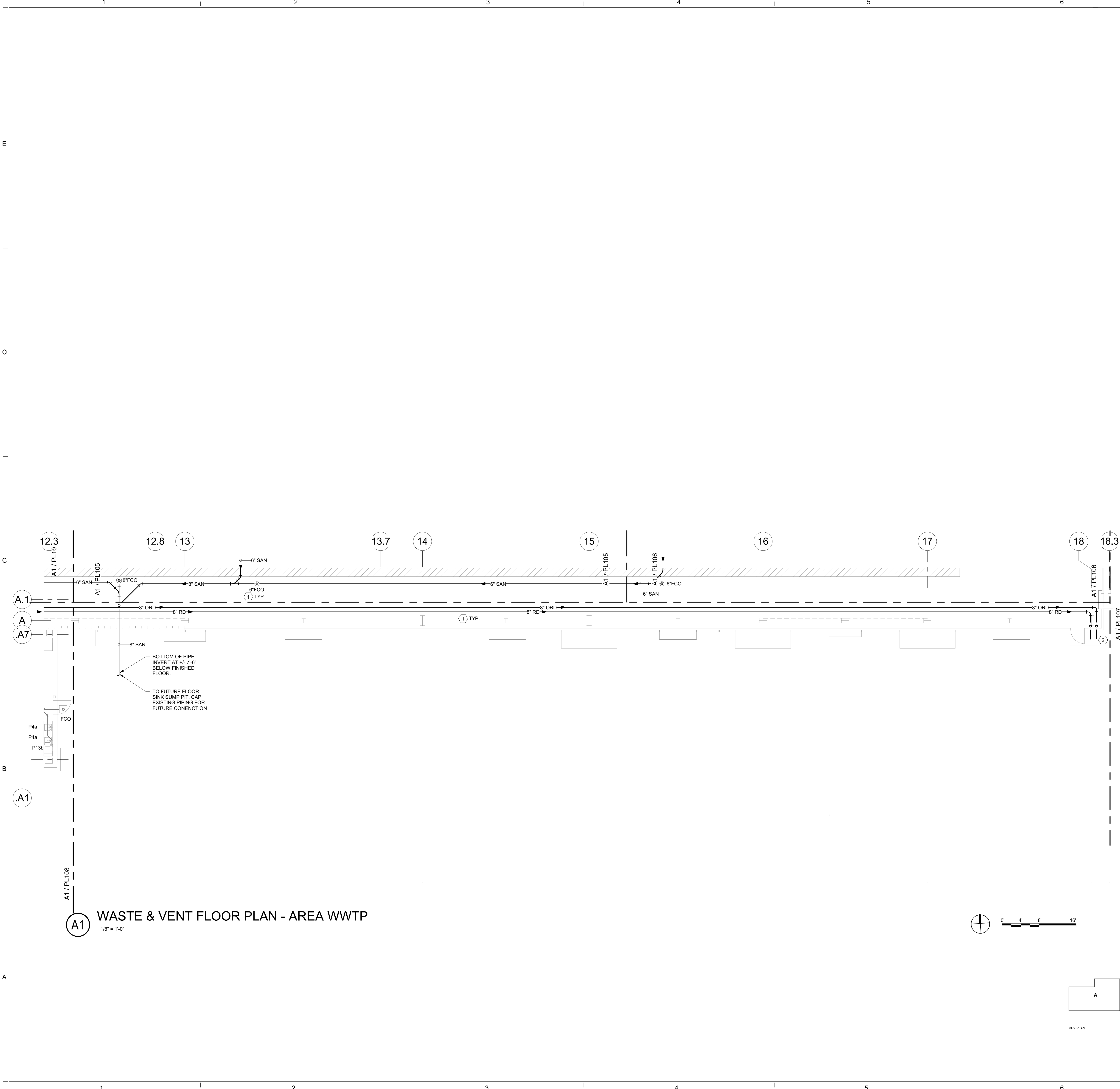
SHEET TITLE

**WASTE & VENT
FLOOR PLAN -
AREA I MECH**

SHEET NUMBER

PL110

Sequence of



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. ALL PIPING IN FACTORY AREA SHALL BE INSTALLED AS PART OF PHASE 2.

SHEET KEYNOTES

1. PHASE 2: INSTALL PIPING, EQUIPEMENT AND FIXTURES AS PART OF PHASE 2.
2. PHASE 2: TERMINATE RD/ORD PIPING THRU WALL AT 12" ABOVE GRADE WITH NICKEL BRONZE DOWN SPOUT NOZZLE.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

50% CONSTRUCTION DOCUMENTS

FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC

8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

CONSULTANT INFO & LOGO

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Albuquerque, NM 87110 | 505.883.4111 | www.bpcos.com

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SHEET TITLE

WASTE & VENT FLOOR PLAN - AREA WWTP

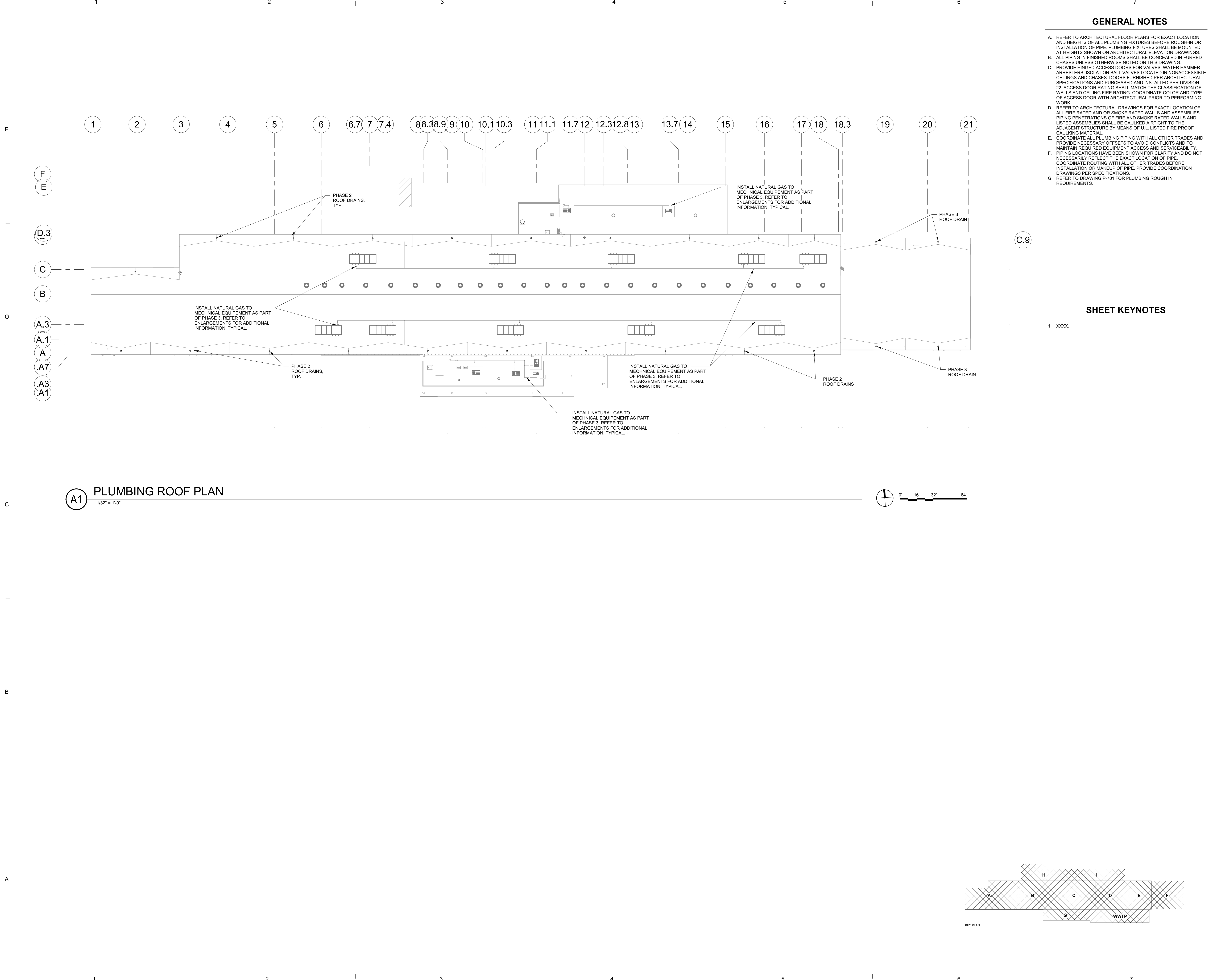
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PL111

Sequence of

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Bridgers & Paxton Project No. 8286



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
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- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

SHEET KEYNOTES

1. XXXX

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
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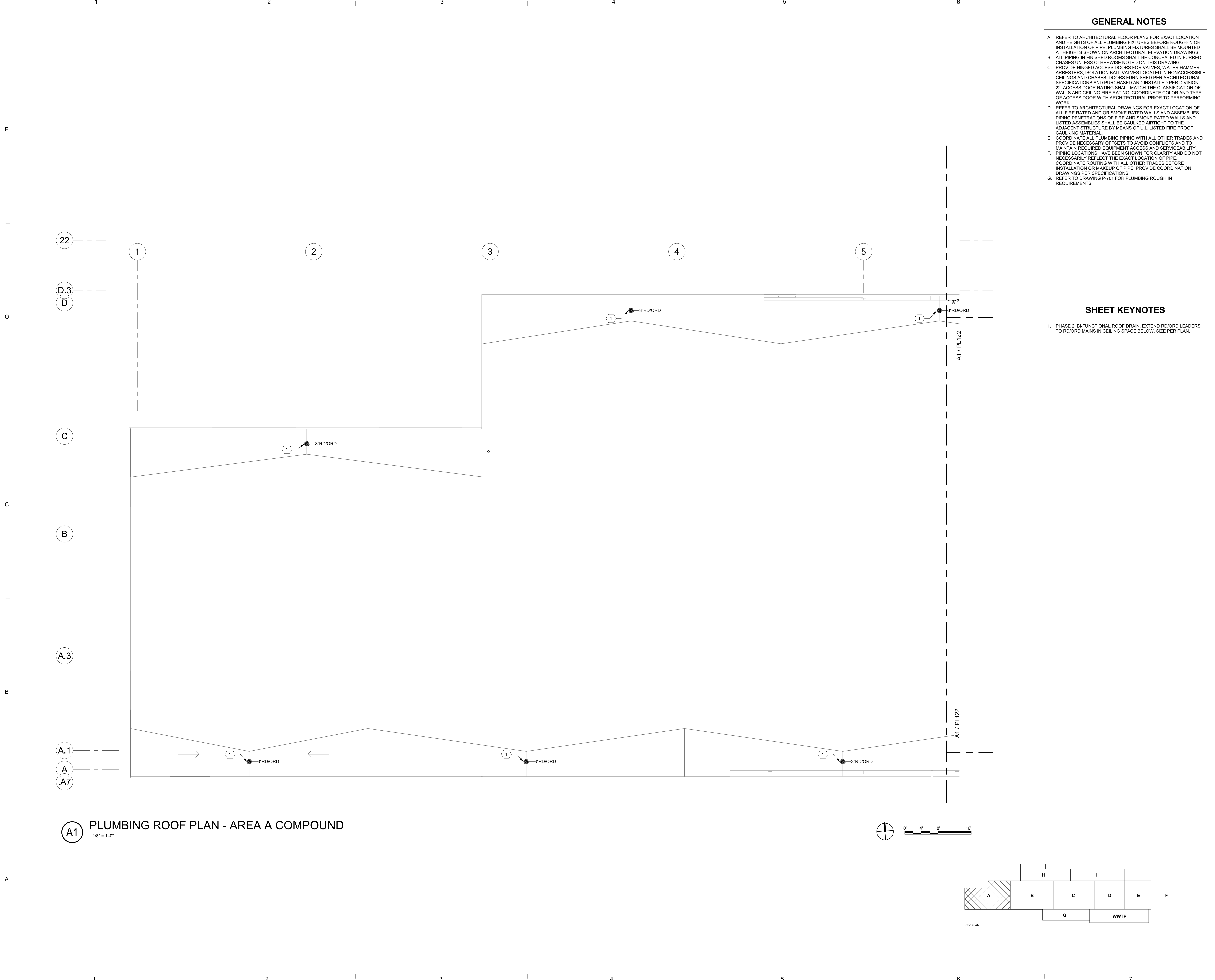
SHEET TITLE

PLUMBING ROOF PLAN

SHEET NUMBER

PL120

Sequence of



A1 PLUMBING ROOF PLAN - AREA A COMPOUND
1/8" = 1'-0"

GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
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- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

SHEET KEYNOTES

- 1. PHASE 2: BI-FUNCTIONAL ROOF DRAIN. EXTEND RD/ORD LEADERS TO RD/ORD MAINS IN CEILING SPACE BELOW. SIZE PER PLAN.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

50% CONSTRUCTION DOCUMENTS

FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

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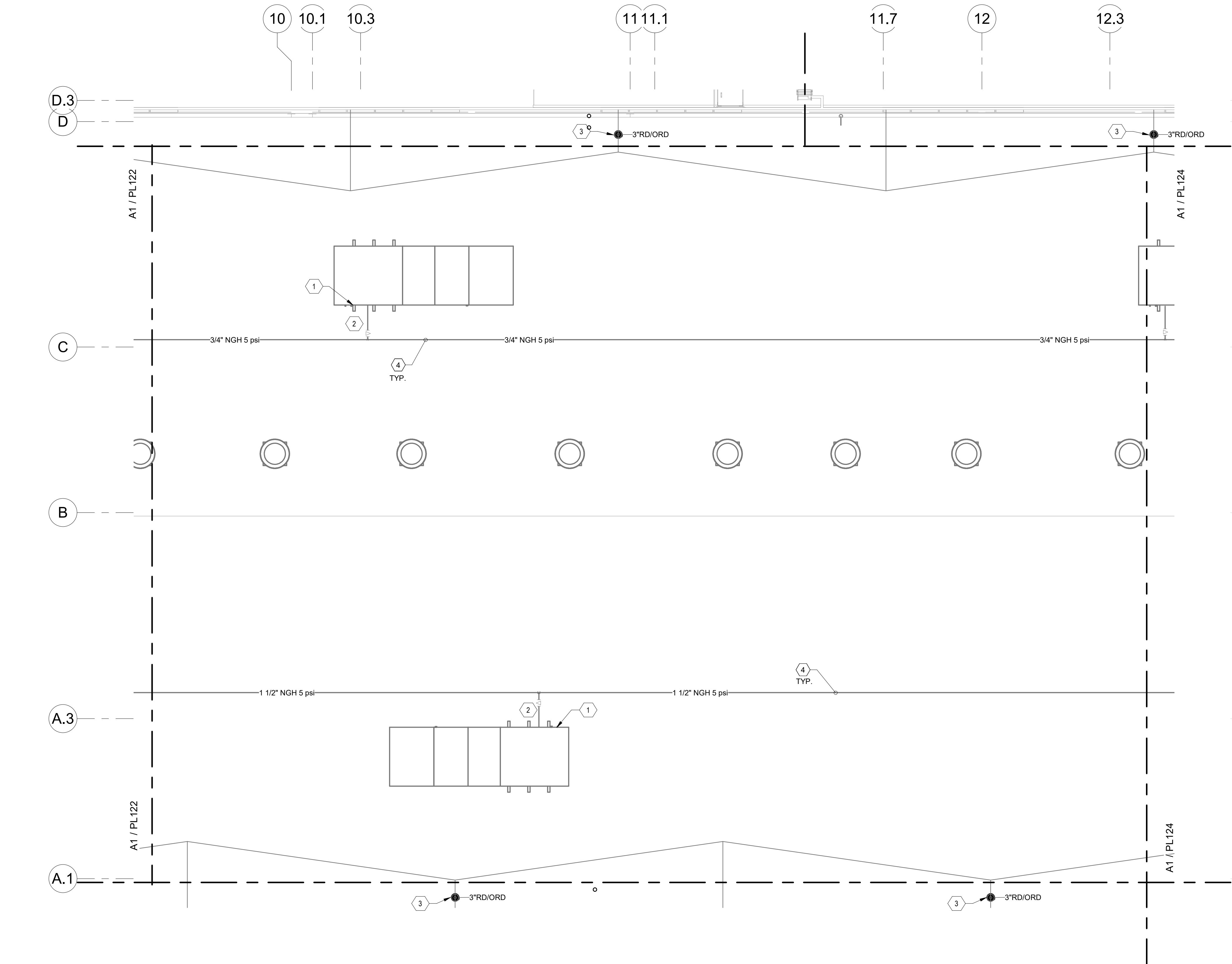
PLUMBING ROOF PLAN - AREA A COMP.

SHEET NUMBER

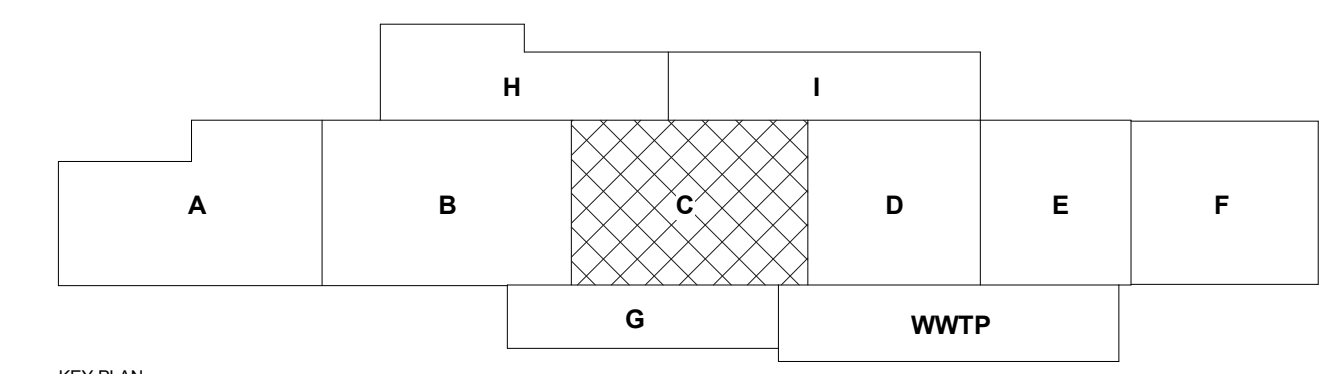
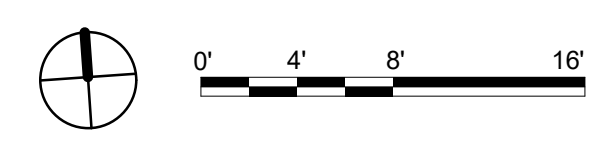
PL121

Sequence of

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Bridgers & Paxton Project No. 8286



A1 PLUMBING ROOF PLAN - AREA C FACTORY
1/8" = 1'-0"



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

SHEET KEYNOTES

- 1. PHASE 3: ROUTE LINE SIZE PVC DRAIN FROM MAU TO DOWN THRU ROOF. TERMINATE TO NEAREST FLOOR SINK INDIRECTLY WITH 2" MIN AIR GAP CONNECTION. SLOPE PIPING TO DRAIN. COORDINATE WITH MANUFACTURER FOR SUPPLY AND DRAIN CONNECTION REQUIREMENTS. PROVIDE TRAP IN DRAIN PRIOR TO GRAVITY DRAIN. INSTALL PER MANUFACTURERS REQUIREMENTS.
- 2. PHASE 3: CONNECT GAS PIPING TO UNIT WITH UNION, DIRT-LEG, PLUG VALVE AND FLEX CONNECTION.
- 3. PHASE 2: BI-FUNCTIONAL ROOF DRAIN. EXTEND RD/ORD LEADERS TO RD/ORD MAINS IN CEILING SPACE BELOW. SIZE PER PLAN.
- 4. PHASE 3: INSTALL GAS PIPING ON ROOF WITH PIPE SUPPORTS.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
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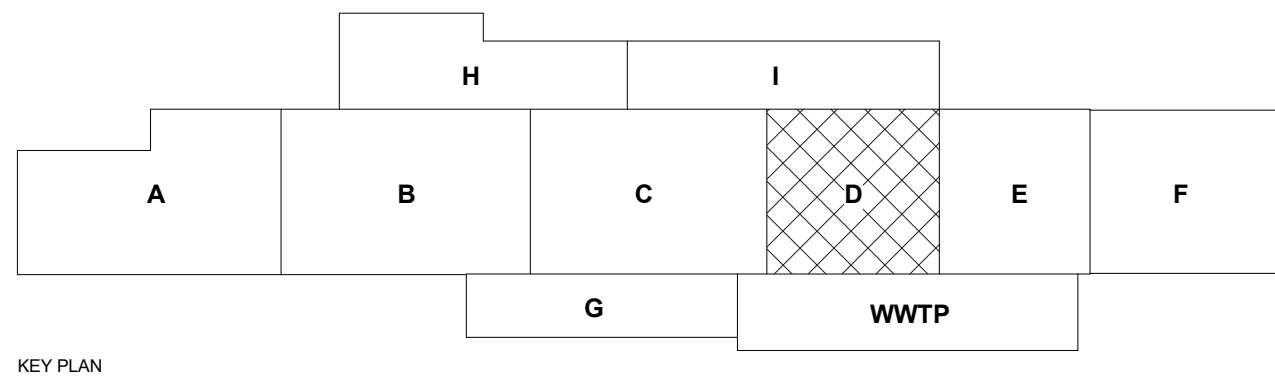
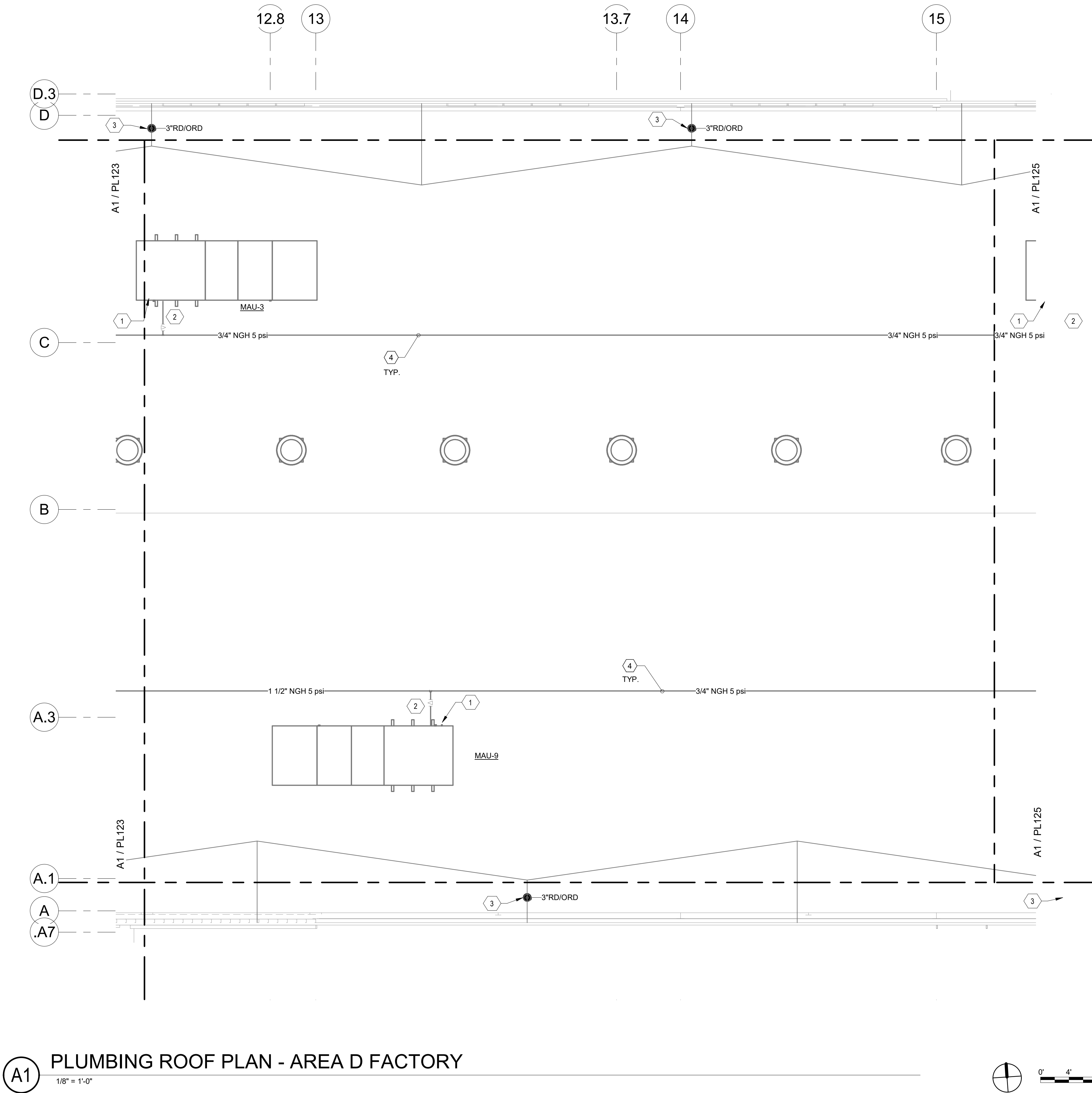
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SHEET TITLE
PLUMBING ROOF PLAN - AREA C FACTORY

SHEET NUMBER
PL123
Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 12:06:23 PM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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SHEET KEYNOTES

- PHASE 3: ROUTE LINE SIZE PVC DRAIN FROM MAU TO DOWN THRU ROOF. TERMINATE TO NEAREST FLOOR SINK INDIRECTLY WITH 2" MIN AIR GAP CONNECTION. SLOPE PIPING TO DRAIN. COORDINATE WITH MANUFACTURER FOR SUPPLY AND DRAIN CONNECTION REQUIREMENTS. PROVIDE TRAP IN DRAIN PRIOR TO GRAVITY DRAIN. INSTALL PER MANUFACTURERS REQUIREMENTS.
- PHASE 3: CONNECT GAS PIPING TO UNIT WITH UNION, DIRT-LEG, PLUG VALVE AND FLEX CONNECTION.
- PHASE 2: BI-FUNCTIONAL ROOF DRAIN. EXTEND RD/ORD LEADERS TO RD/ORD MAINS IN CEILING SPACE BELOW. SIZE PER PLAN.
- PHASE 3: INSTALL GAS PIPING ON ROOF WITH PIPE SUPPORTS.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



8008 Pennsylvania Cir. NE
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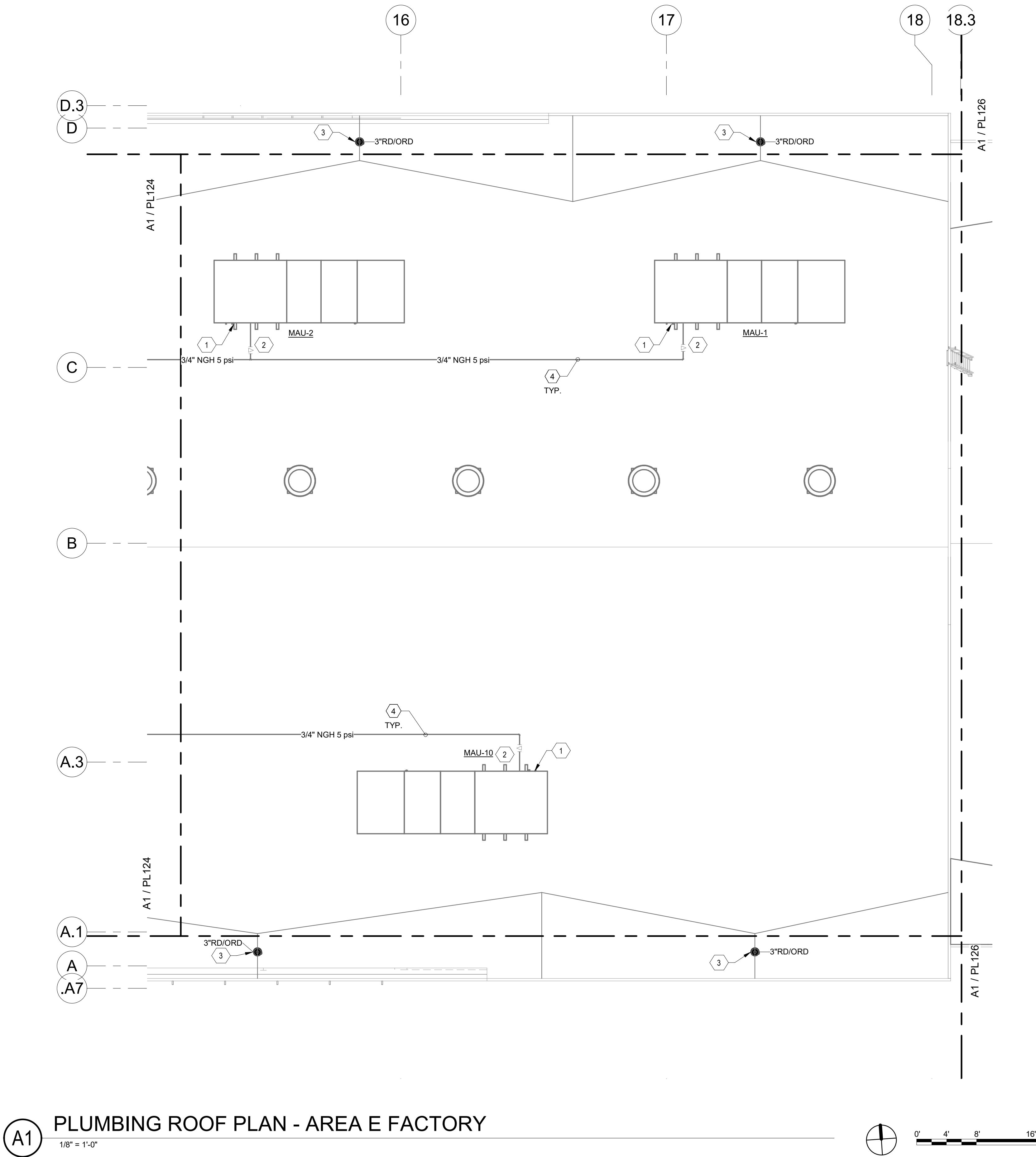
PLUMBING ROOF
PLAN - AREA D
FACTORY

SHEET NUMBER

PL124

Sequence of

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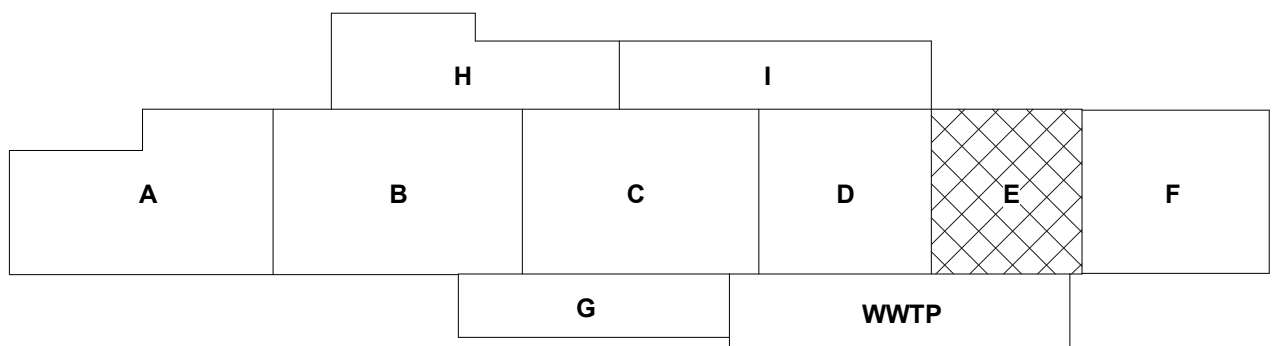


GENERAL NOTES

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4. PHASE 3: INSTALL GAS PIPING ON ROOF WITH PIPE SUPPORTS.



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
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SHEET TITLE

PLUMBING ROOF
PLAN - AREA E
FACTORY

SHEET NUMBER

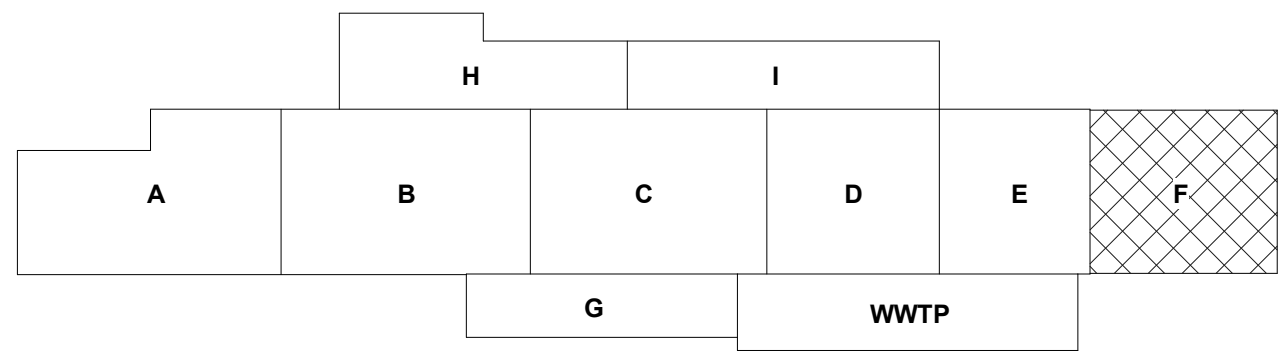
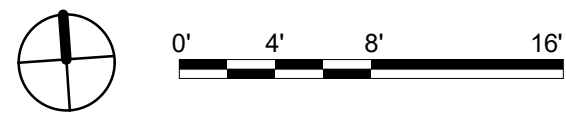
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Bridgers & Paxton Project No. 8286

(A1) PLUMBING ROOF PLAN - AREA F WAREHOUSE

1/8" = 1'-0"



KEY PLAN

GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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SHEET KEYNOTES

1. PHASE 3: BI-FUNCTIONAL ROOF DRAIN. EXTEND RD/ORD LEADERS TO RD/ORD MAINS IN CEILING SPACE BELOW. SIZE PER PLAN.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
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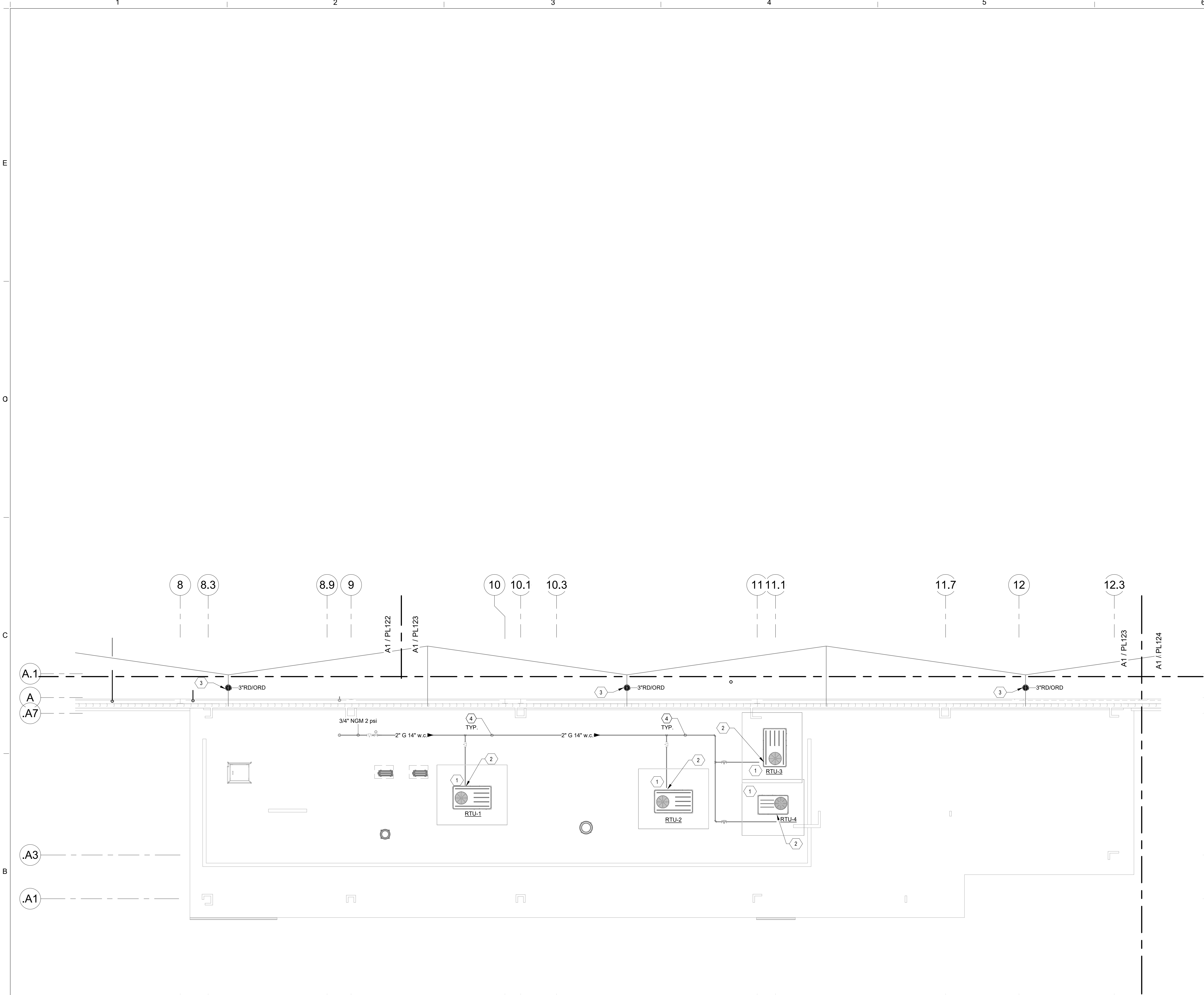
**PLUMBING ROOF
PLAN - AREA F
WAREHOUSE**

SHEET NUMBER

PL126

Sequence of

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Bridgers & Paxton Project No. 8286



A1 PLUMBING ROOF PLAN - AREA G ADMINISTRATION
1/8" = 1'-0"

GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

SHEET KEYNOTES

1. PHASE 3: ROUTE LINE SIZE COPPER DRAIN FROM RTU TO DOWN THRU ROOF. TERMINATE TO NEAREST FLOOR SINK INDIRECTLY WITH 2" MIN AIR GAP CONNECTION. SLOPE PIPING TO DRAIN. COORDINATE WITH MANUFACTURER FOR SUPPLY AND DRAIN CONNECTION REQUIREMENTS. PROVIDE TRAP PRIOR TO GRAVITY DRAIN. INSTALL PER MANUFACTURERS REQUIREMENTS.
2. PHASE 3: CONNECT GAS PIPING TO UNIT WITH UNION, DIRT-LEG, PLUG VALVE AND FLEX CONNECTION.
3. PHASE 2: BI-FUNCTIONAL ROOF DRAIN. EXTEND RD/O RD LEADERS TO RD/O RD MAINS IN CEILING SPACE BELOW. SIZE PER PLAN.
4. PHASE 3: INSTALL GAS PIPING ON ROOF WITH PIPE SUPPORTS.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



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SHEET TITLE

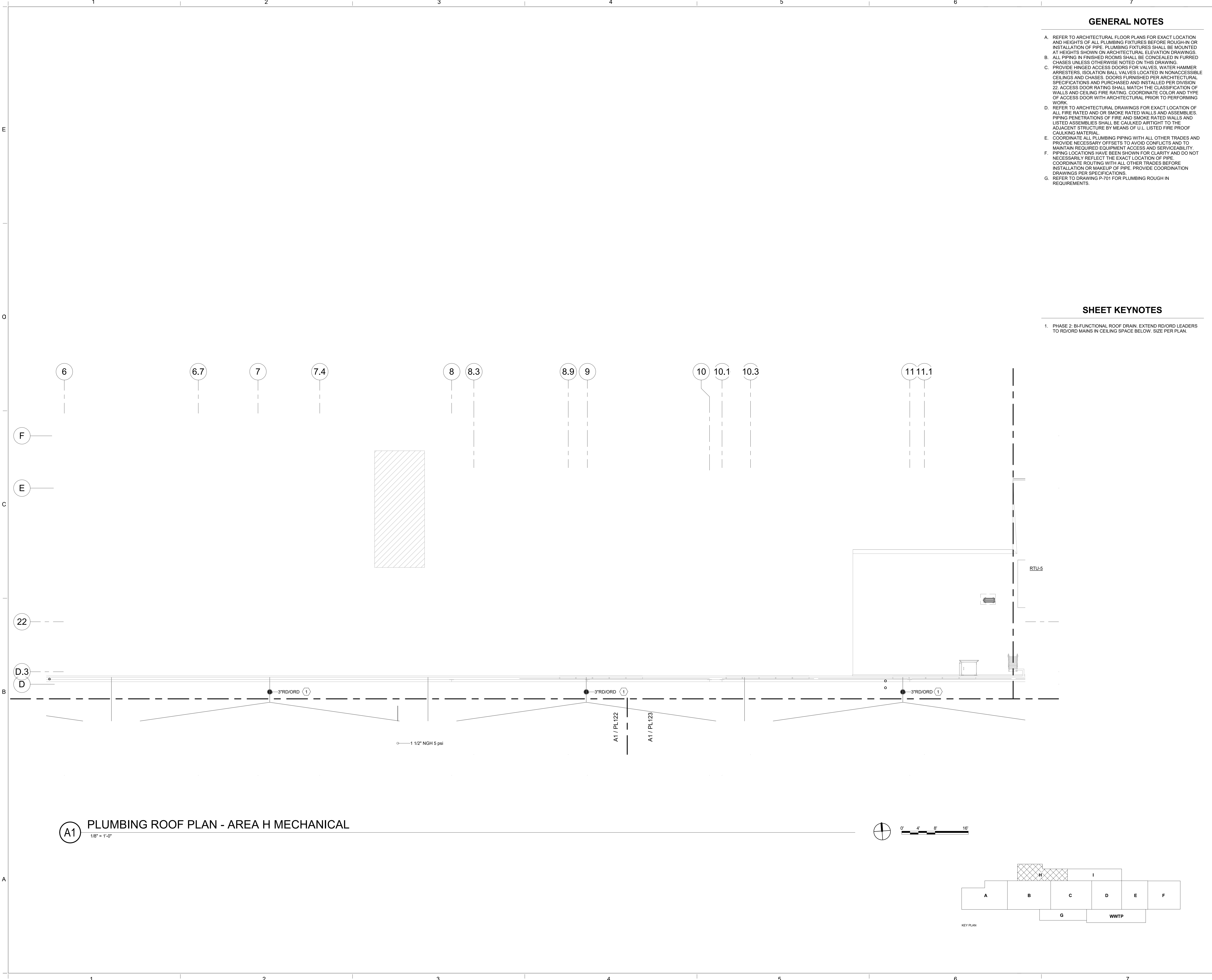
PLUMBING ROOF
PLAN - AREA G
ADMIN

SHEET NUMBER

PL127

Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 12:06:32 PM BIM 360://Church Rock Phase II Factory/8286_MEP_Church Rock Factory.rvt



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

SHEET KEYNOTES

1. PHASE 2: BI-FUNCTIONAL ROOF DRAIN. EXTEND RD/ORD LEADERS TO RD/ORD MAINS IN CEILING SPACE BELOW. SIZE PER PLAN.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
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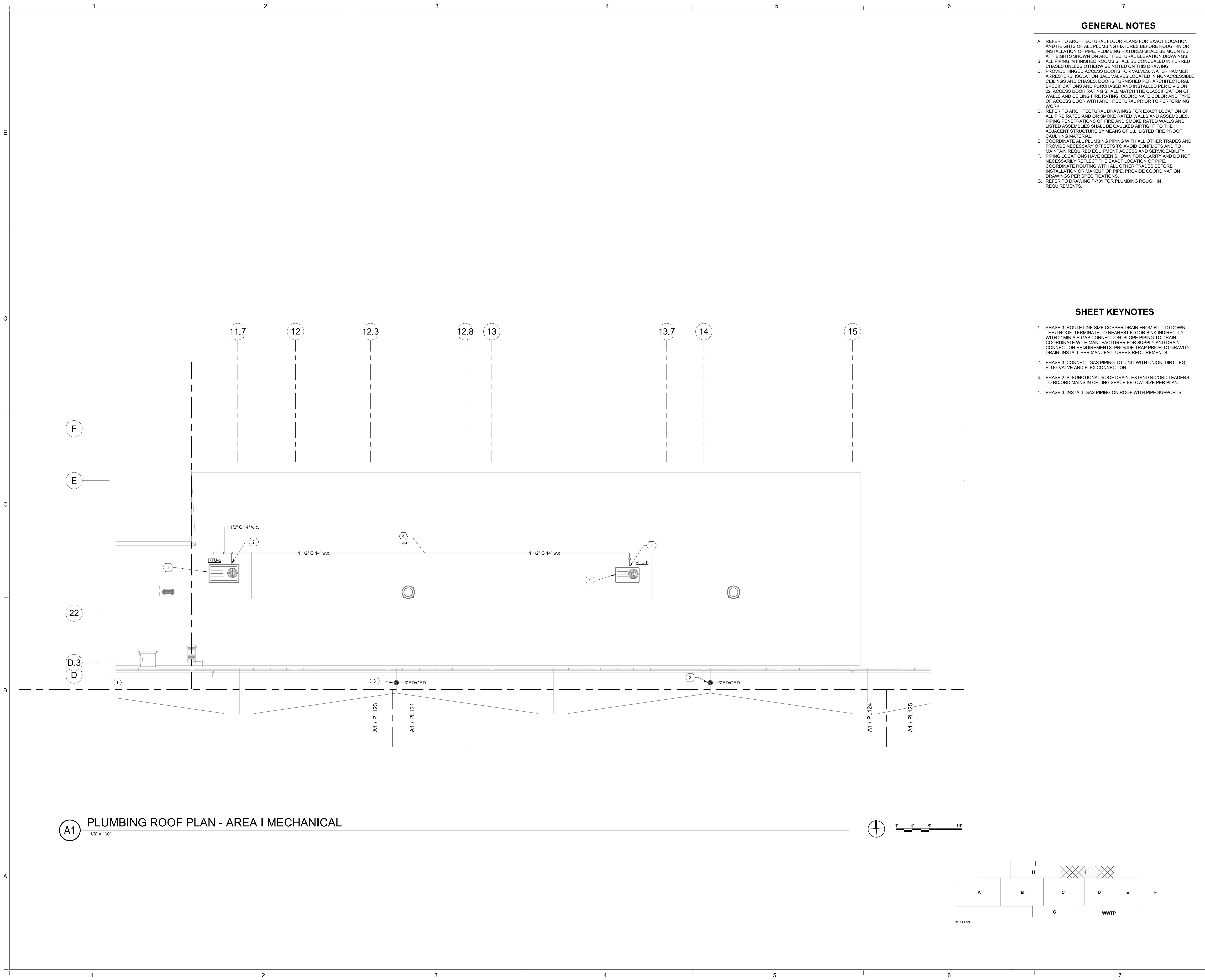
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SHEET TITLE
PLUMBING ROOF PLAN - AREA H MECH

SHEET NUMBER
PL-128
Sequence of

3/25/2022 12:06:34 PM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt

Bridgers & Paxton Project No. 8286



A1 PLUMBING ROOF PLAN - AREA I MECHANICAL
1/8" = 1'-0"

GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
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- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

SHEET KEYNOTES

- PHASE 3: ROUTE LINE SIZE COPPER DRAIN FROM RTU TO DOWN THRU ROOF. TERMINATE TO NEAREST FLOOR SINK INDIRECTLY WITH 2" MIN AIR GAP CONNECTION. SLOPE PIPING TO DRAIN. COORDINATE WITH MANUFACTURER FOR SUPPLY AND DRAIN CONNECTION REQUIREMENTS. PROVIDE TRAP PRIOR TO GRAVITY DRAIN. INSTALL PER MANUFACTURERS REQUIREMENTS.
- PHASE 3: CONNECT GAS PIPING TO UNIT WITH UNION, DIRT-LEG, PLUG VALVE AND FLEX CONNECTION.
- PHASE 2: BI-FUNCTIONAL ROOF DRAIN. EXTEND RD/ORD LEADERS TO RD/ORD MAINS IN CEILING SPACE BELOW. SIZE PER PLAN.
- PHASE 3: INSTALL GAS PIPING ON ROOF WITH PIPE SUPPORTS.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
OWNER:
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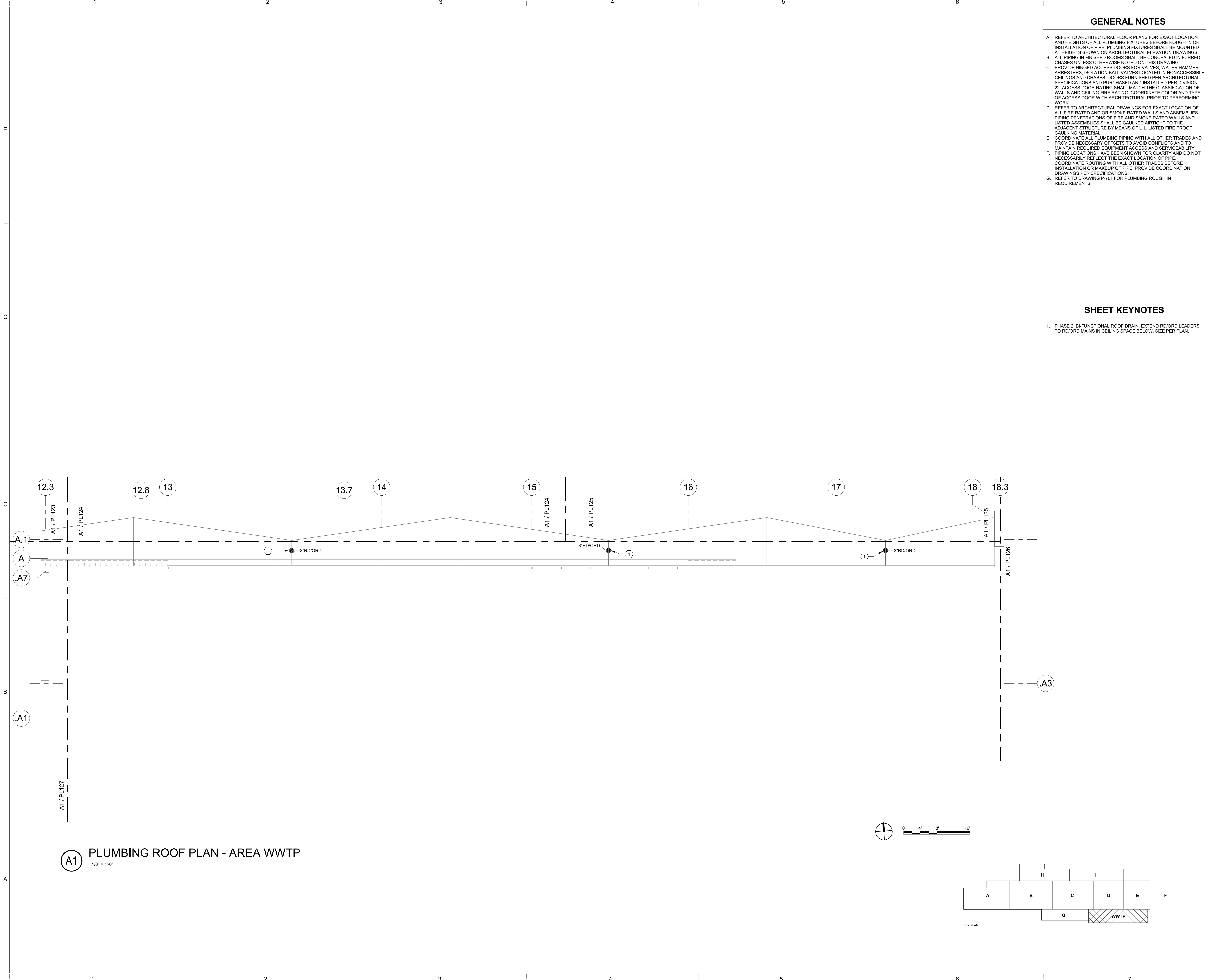
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SHEET TITLE
PLUMBING ROOF PLAN - AREA I MECH

SHEET NUMBER
PL-129
Sequence of

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GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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SHEET KEYNOTES

1. PHASE 2: BI-FUNCTIONAL ROOF DRAIN. EXTEND RD/ORD LEADERS TO RD/ORD MAINS IN CEILING SPACE BELOW. SIZE PER PLAN.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

50% CONSTRUCTION DOCUMENTS

FEBRUARY 16, 2022

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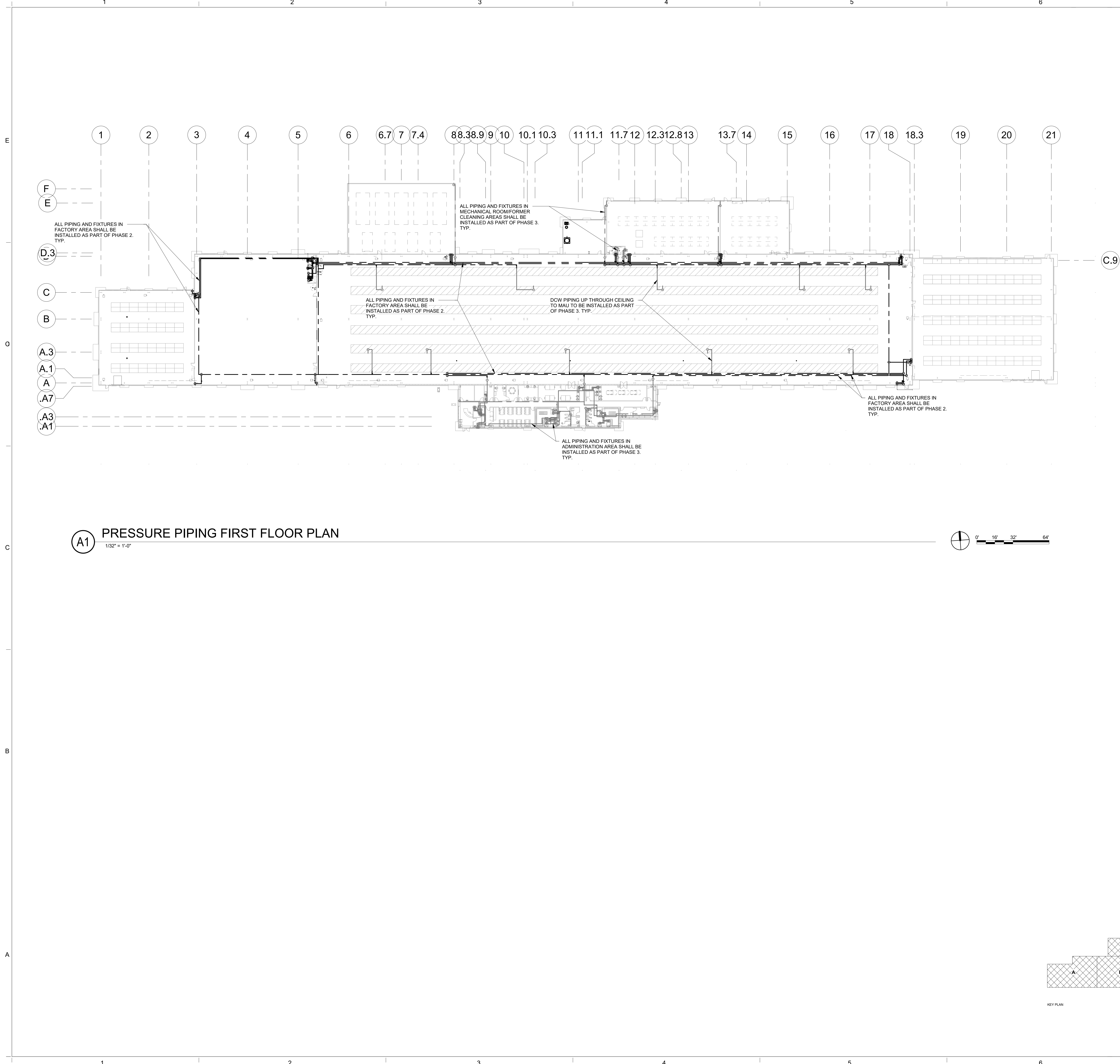
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PLAN - AREA
WWTP**

SHEET NUMBER

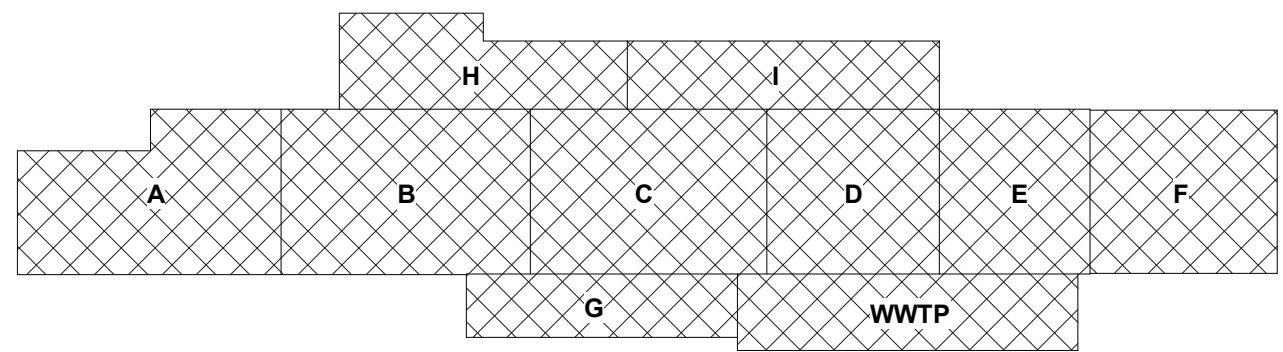
PL-130

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Bridgers & Paxton Project No. 8286



A1 PRESSURE PIPING FIRST FLOOR PLAN
1/32" = 1'-0"



GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.

SHEET KEYNOTES

- 1. XXXX

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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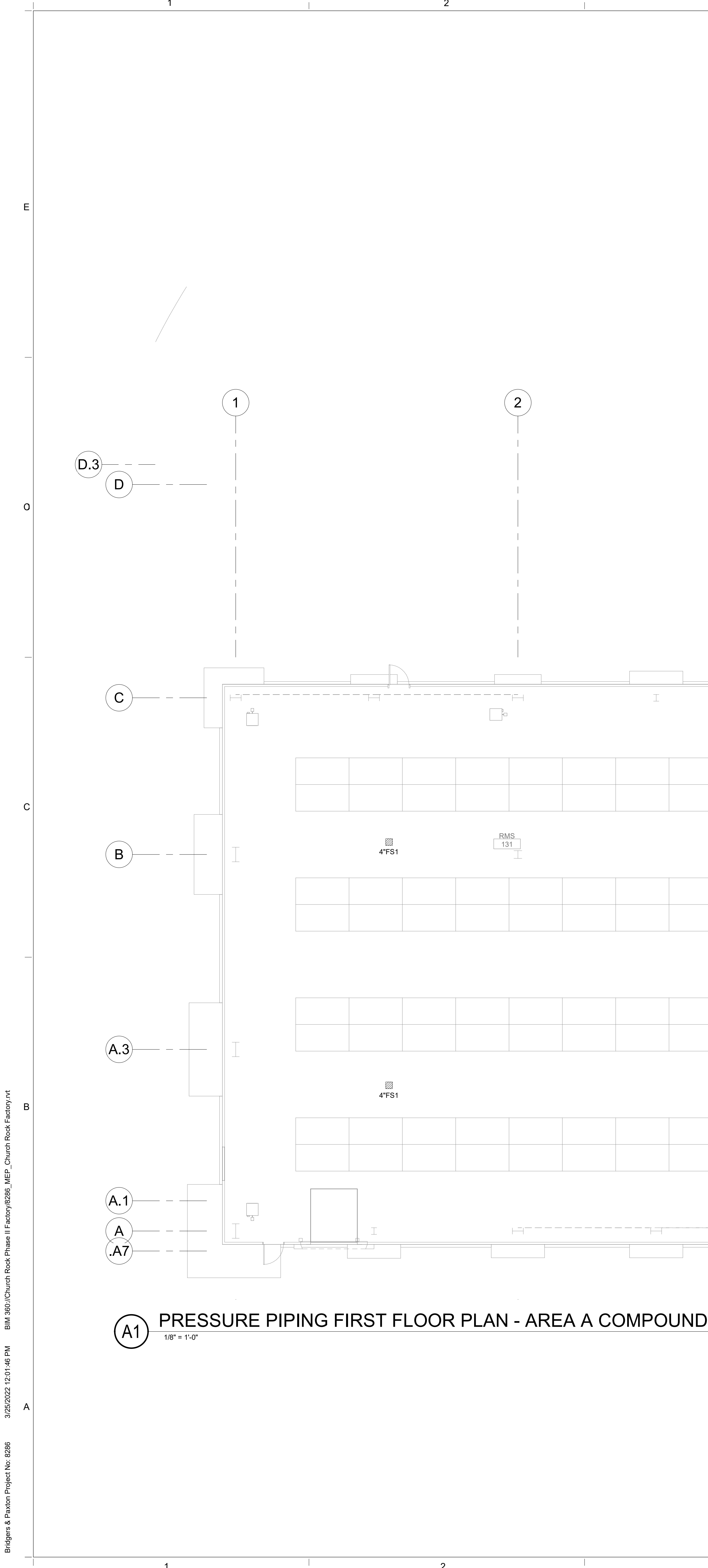
PRESSURE PIPING FLOOR PLAN

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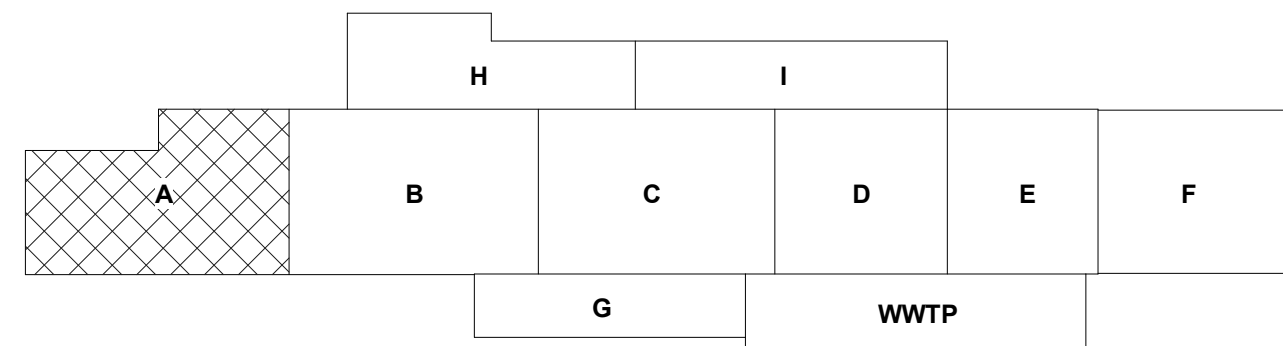
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Bridgers & Paxton Project No. 8286



A1 PRESSURE PIPING FIRST FLOOR PLAN - AREA A COMPOUND
1/8" = 1'-0"



- GENERAL NOTES**
- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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 - REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
 - ALL DCW/DHW/DHR PIPING ROUTED IN FACTORY FLOOR AREA, RMS AREA AND COMPOUND AREAS SHALL BE INSTALLED AS PART OF PHASE 2.
 - ALL PLUMBING FIXTURES SHOWN IN FACTORY FLOOR AREAS SHALL BE INSTALLED AS PART OF PHASE 2.

- SHEET KEYNOTES**
- XXXX

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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SHEET TITLE
PRESSURE PIPING FLOOR PLAN - AREA A COMP.

SHEET NUMBER
PP102
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3/25/2022 12:01:46 PM



- ## SHEET KEYNOTES

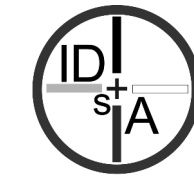
1. PHASE 3: 1" DOW ROUTED UP THRU ROOF TO MAKE UP AIR UNIT.
2. PHASE 2: INSTALL DHW PIPING IN CEILING SPACE AS PART OF PHASE 2.
3. PHASE 2: CAP DHW PIPING IN CEILING TO ALLOW FOR CONNECTION IN PHASE 3.
4. PHASE 3: CONNECT AND EXTEND DHW PIPING TO ADMIN SPACE.
5. PHASE 3: INSTALL DOW PIPING IN ADMIN SPACE.
6. PHASE 2: INSTALL DOW PIPING IN CEILING SPACE.
7. PHASE 2: CAP DOW PIPING IN CEILING TO ALLOW FOR CONNECTION IN PHASE 3.
8. PHASE 3: CONNECT AND EXTEND DOW PIPING TO ADMIN SPACE.
9. PHASE 3: INSTALL DOW PIPING IN ADMIN SPACE.
10. PHASE 3: CONNECT AND EXTEND DOW PIPING TO FACTORY SPACE.
11. PHASE 3: INSTALL DOW PIPING IN CEILING AND UP THROUGH THE ROOF TO THE MAU.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
 FEBRUARY 16, 2022

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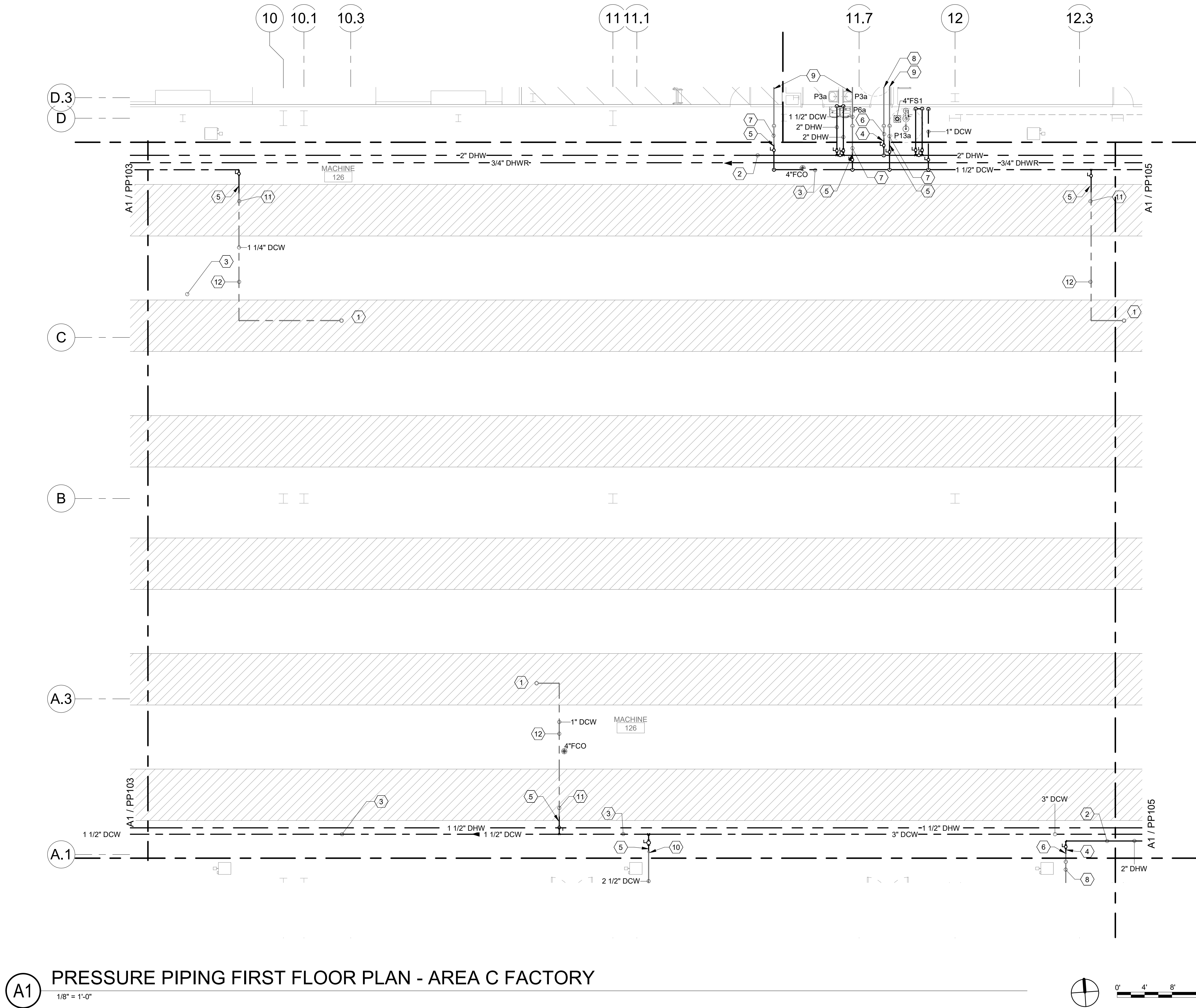
PRESSURE PIPING FLOOR PLAN - AREA B FACTORY

SHEET NUMBER

PP103

Sequence of

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A1 PRESSURE PIPING FIRST FLOOR PLAN - AREA C FACTORY
1/8" = 1'-0"

GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- ALL DCW/DHW/DHR PIPING ROUTED IN FACTORY FLOOR AREA SHALL BE INSTALLED AS PART OF PHASE 2.
- ALL PLUMBING FIXTURES SHOWN IN FACTORY FLOOR AREAS SHALL BE INSTALLED AS PART OF PHASE 2.

SHEET KEYNOTES

- PHASE 3: 1" DCW ROUTED UP THRU ROOF TO MAKE UP AIR UNIT.
- PHASE 2: INSTALL DHW PIPING IN CEILING SPACE.
- PHASE 2: INSTALL DCW PIPING IN CEILING SPACE.
- PHASE 2: CAP DHW PIPING IN CEILING TO ALLOW FOR CONNECTION IN PHASE 3.
- PHASE 2: CAP DCW PIPING IN CEILING TO ALLOW FOR CONNECTION IN PHASE 3.
- PHASE 3: CONNECT AND EXTEND DHW PIPING TO MECH SPACE.
- PHASE 3: CONNECT AND EXTEND DCW PIPING TO MECH SPACE.
- PHASE 3: INSTALL DHW PIPING IN MECH SPACE.
- PHASE 3: INSTALL DCW PIPING IN MECH SPACE.
- PHASE 3: CONNECT AND EXTEND DCW PIPING TO ADMIN SPACE.
- PHASE 3: CONNECT AND EXTEND DCW PIPING TO FACTORY SPACE.
- PHASE 3: INSTALL DCW PIPING IN CEILING AND UP THROUGH THE ROOF TO THE MAU.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



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Albuquerque, NM 87110
Tel 505.226.2565
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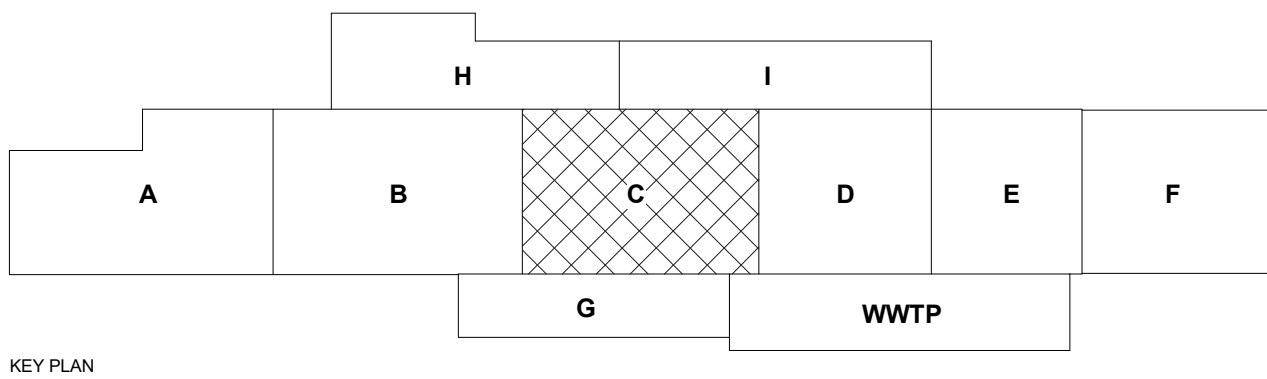
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**PRESSURE PIPING
FLOOR PLAN -
AREA C FACTORY**

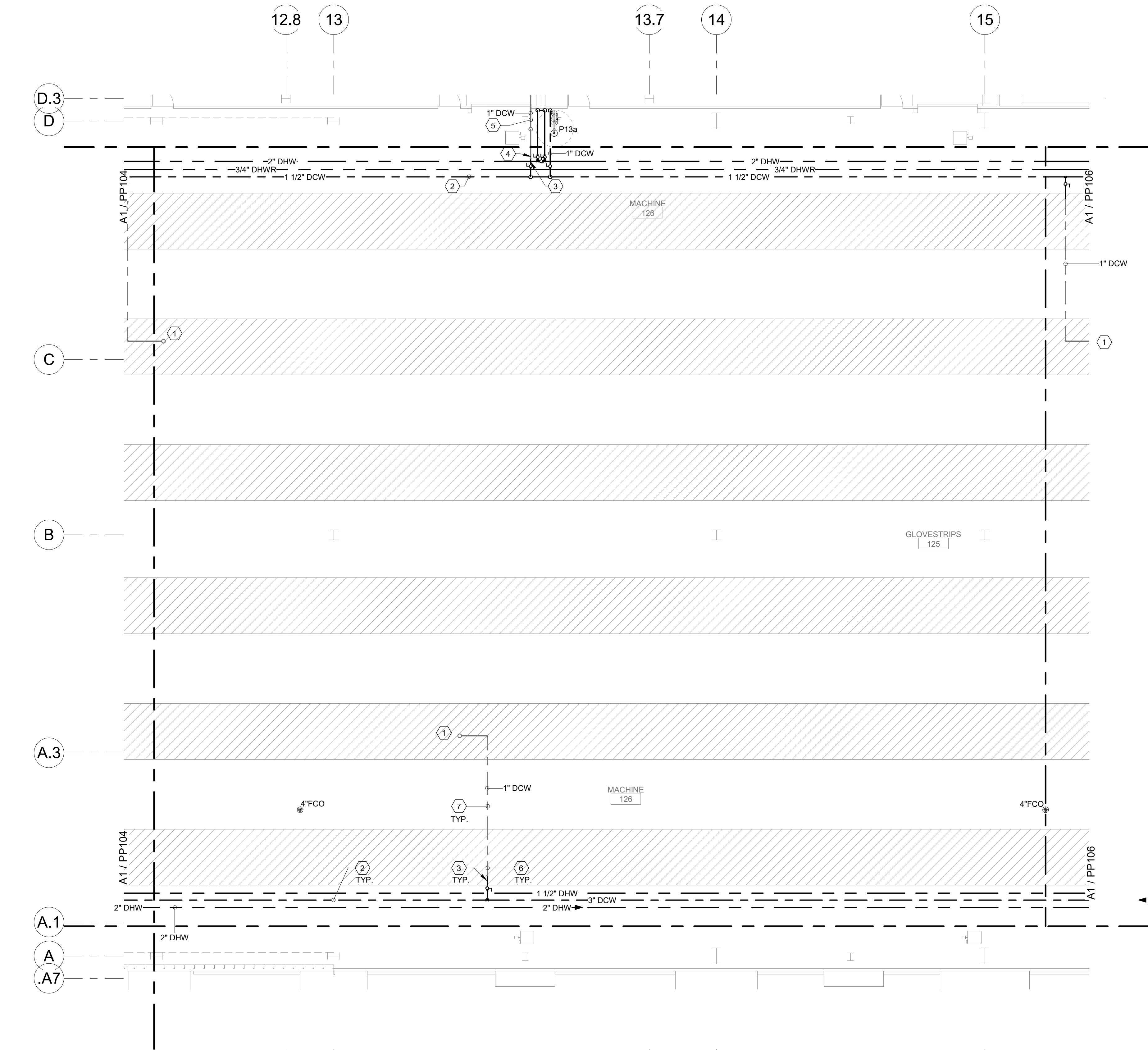
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PP104

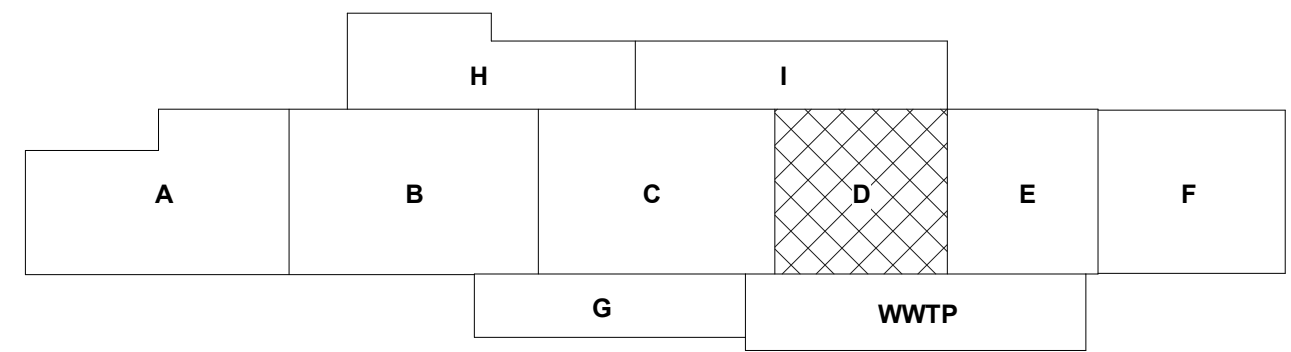
Sequence of



KEY PLAN



A1 PRESSURE PIPING FIRST FLOOR PLAN - AREA D FACTORY
1/8" = 1'-0"



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- ALL DCW/DHW/DHR PIPING ROUTED IN FACTORY FLOOR AREA SHALL BE INSTALLED AS PART OF PHASE 2.
- ALL PLUMBING FIXTURES SHOWN IN FACTORY FLOOR AREAS SHALL BE INSTALLED AS PART OF PHASE 2.

SHEET KEYNOTES

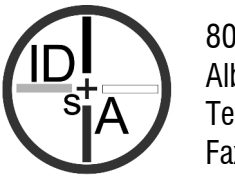
- PHASE 3: 1" DCW ROUTED UP THRU ROOF TO MAKE UP AIR UNIT.
- PHASE 2: INSTALL DCW PIPING IN CEILING SPACE.
- PHASE 2: CAP DCW PIPING IN CEILING TO ALLOW FOR CONNECTIONS IN PHASE 3.
- PHASE 3: CONNECT AND EXTEND DCW PIPING TO MECH SPACE.
- PHASE 3: INSTALL DCW PIPING IN ADMIN SPACE.
- PHASE 3: CONNECT AND EXTEND DCW PIPING TO FACTORY SPACE.
- PHASE 3: INSTALL DCW PIPING IN CEILING AND UP THROUGH THE ROOF TO THE MAU.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



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SHEET TITLE

**PRESSURE PIPING
FLOOR PLAN -
AREA D FACTORY**

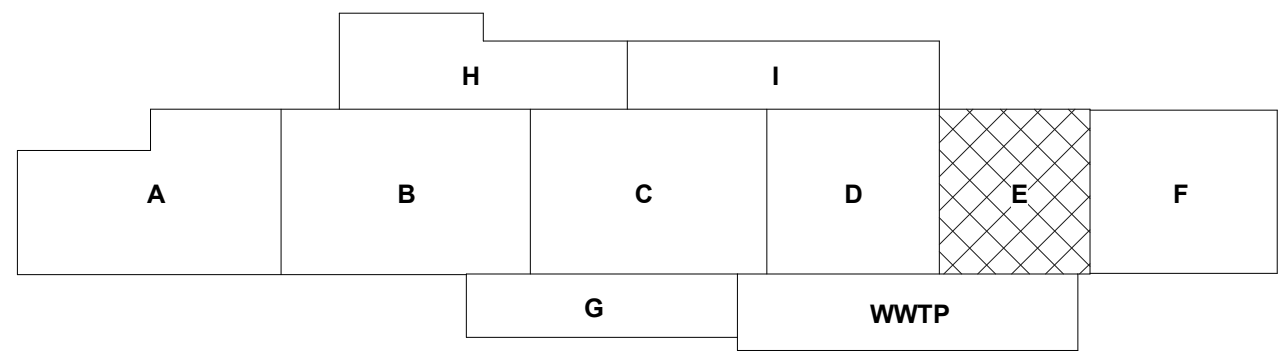
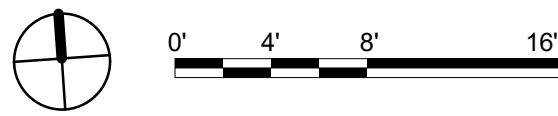
SHEET NUMBER

PP105

Sequence of

A1 PRESSURE PIPING FIRST FLOOR PLAN - AREA E FACTORY

1/8" = 1'-0"



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
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- PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- ALL DCW/DHW/DHR PIPING ROUTED IN FACTORY FLOOR AREA SHALL BE INSTALLED AS PART OF PHASE 2.
- ALL PLUMBING FIXTURES SHOWN IN FACTORY FLOOR AREAS SHALL BE INSTALLED AS PART OF PHASE 2.

SHEET KEYNOTES

- PHASE 3: 1" DCW ROUTED UP THRU ROOF TO MAKE UP AIR UNIT.
- PHASE 2: INSTALL DCW PIPING IN CEILING SPACE.
- PHASE 2: CAP DCW PIPING IN CEILING TO ALLOW FOR CONNECTIONS IN PHASE 3.
- PHASE 3: CONNECT AND EXTEND DCW PIPING TO FACTORY SPACE.
- PHASE 3: INSTALL DCW PIPING IN CEILING AND UP THROUGH THE ROOF TO THE MAU.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
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INDIGENOUS DESIGN STUDIO +
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SHEET TITLE

PRESSURE PIPING
FLOOR PLAN -
AREA E FACTORY

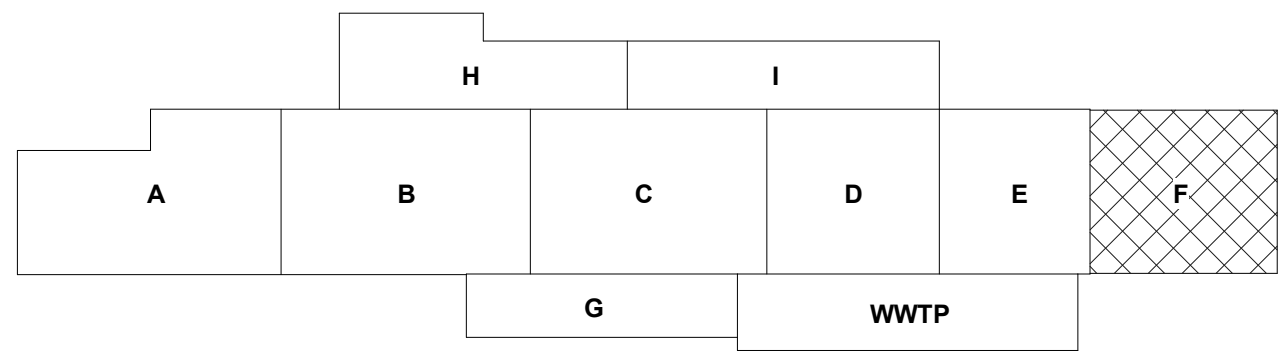
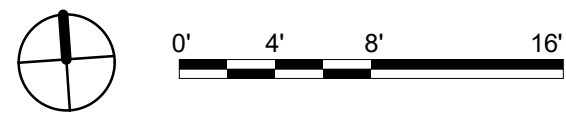
SHEET NUMBER

PP106

Sequence of

A1 PRESSURE PIPING FIRST FLOOR PLAN - AREA F WAREHOUSE

1/8" = 1'-0"



KEY PLAN

GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. ALL DCW/DHW/DHR PIPING ROUTED IN FACTORY FLOOR AREA SHALL BE INSTALLED AS PART OF PHASE 2.
- I. ALL PLUMBING FIXTURES SHOWN IN FACTORY FLOOR AREAS SHALL BE INSTALLED AS PART OF PHASE 2.

SHEET KEYNOTES

1. XXXX

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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SHEET TITLE
PRESSURE PIPING FLOOR PLAN - AREA F WAREHOUSE

SHEET NUMBER

PP107

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Bridgers & Paxton Project No. 8286

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B

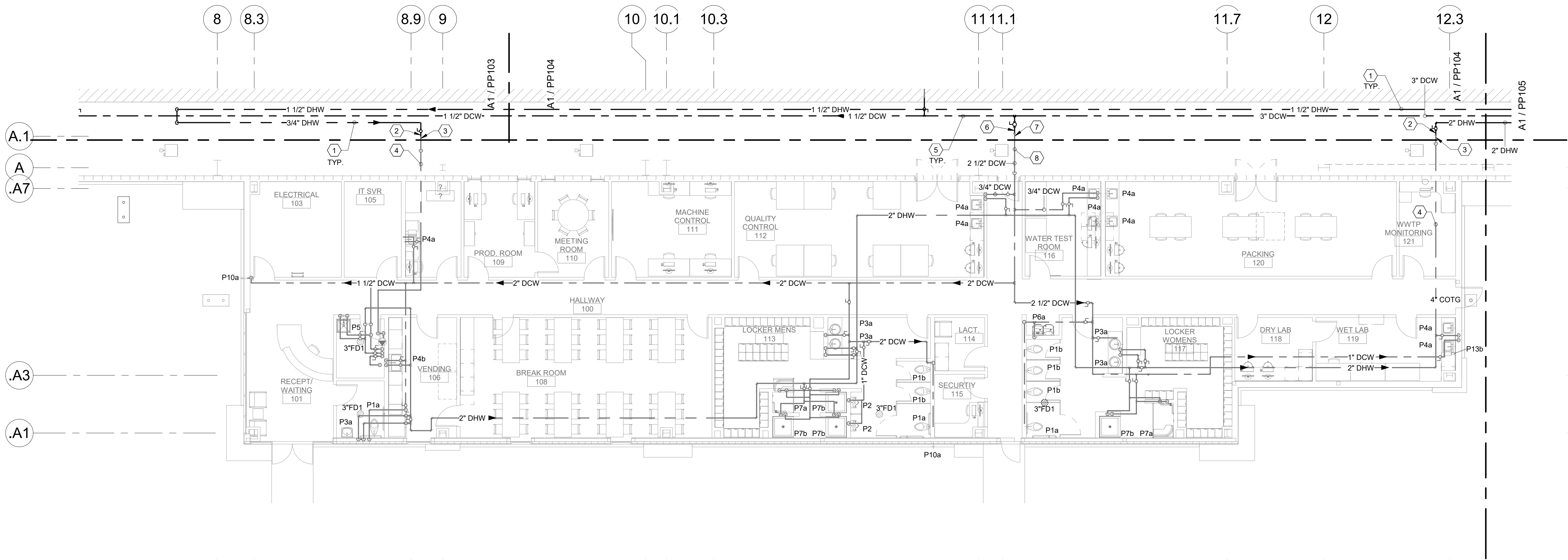
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GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
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- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. ALL DCW/DHW/DHR PIPING ROUTED IN FACTORY FLOOR AREA SHALL BE INSTALLED AS PART OF PHASE 2.
- I. ALL PLUMBING FIXTURES SHOWN IN FACTORY FLOOR AREAS SHALL BE INSTALLED AS PART OF PHASE 2.
- J. ALL DCW/DHW/DHR PIPING SHOWN IN ADMINISTRATION AREA SHALL BE INSTALL AS PART OF PHASE 3.

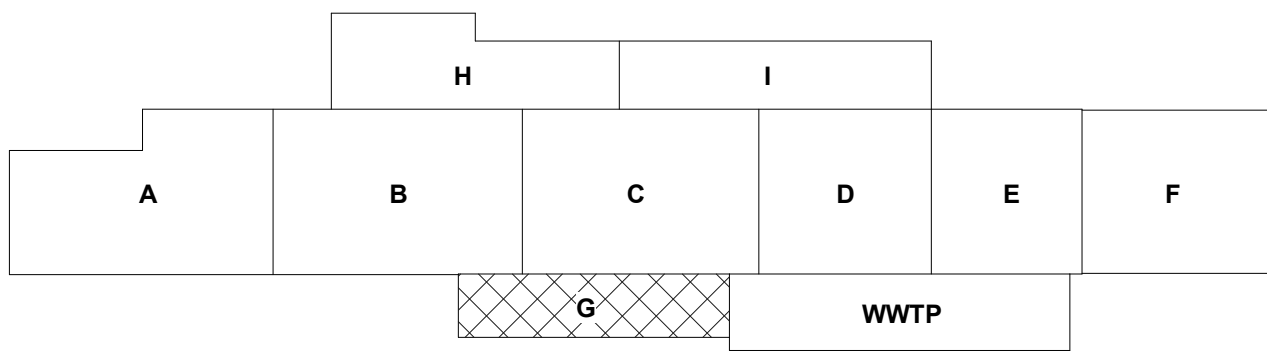
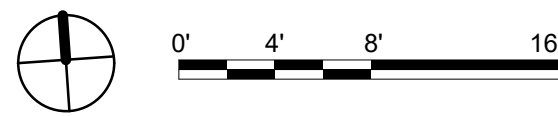
SHEET KEYNOTES

1. PHASE 2: INSTALL DHW PIPING IN CEILING SPACE.
2. PHASE 2: CAP DHW PIPING IN CEILING TO ALLOW FOR CONNECTION IN PHASE 3.
3. PHASE 3: CONNECT AND EXTEND DHW PIPING TO ADMIN SPACE.
4. PHASE 3: INSTALL DCW PIPING IN ADMIN SPACE.
5. PHASE 2: INSTALL DCW PIPING IN CEILING SPACE.
6. PHASE 2: CAP DCW PIPING IN CEILING TO ALLOW FOR CONNECTION IN PHASE 3.
7. PHASE 3: CONNECT AND EXTEND DCW PIPING TO ADMIN SPACE.
8. PHASE 3: INSTALL DCW PIPING IN ADMIN SPACE.



A1 PRESSURE PIPING FIRST FLOOR PLAN - AREA G ADMINISTRATION

1/8" = 1'-0"



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

50% CONSTRUCTION DOCUMENTS

FEBRUARY 16, 2022

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SHEET TITLE

**PRESSURE PIPING
FLOOR PLAN -
AREA G ADMIN**

SHEET NUMBER

PP108

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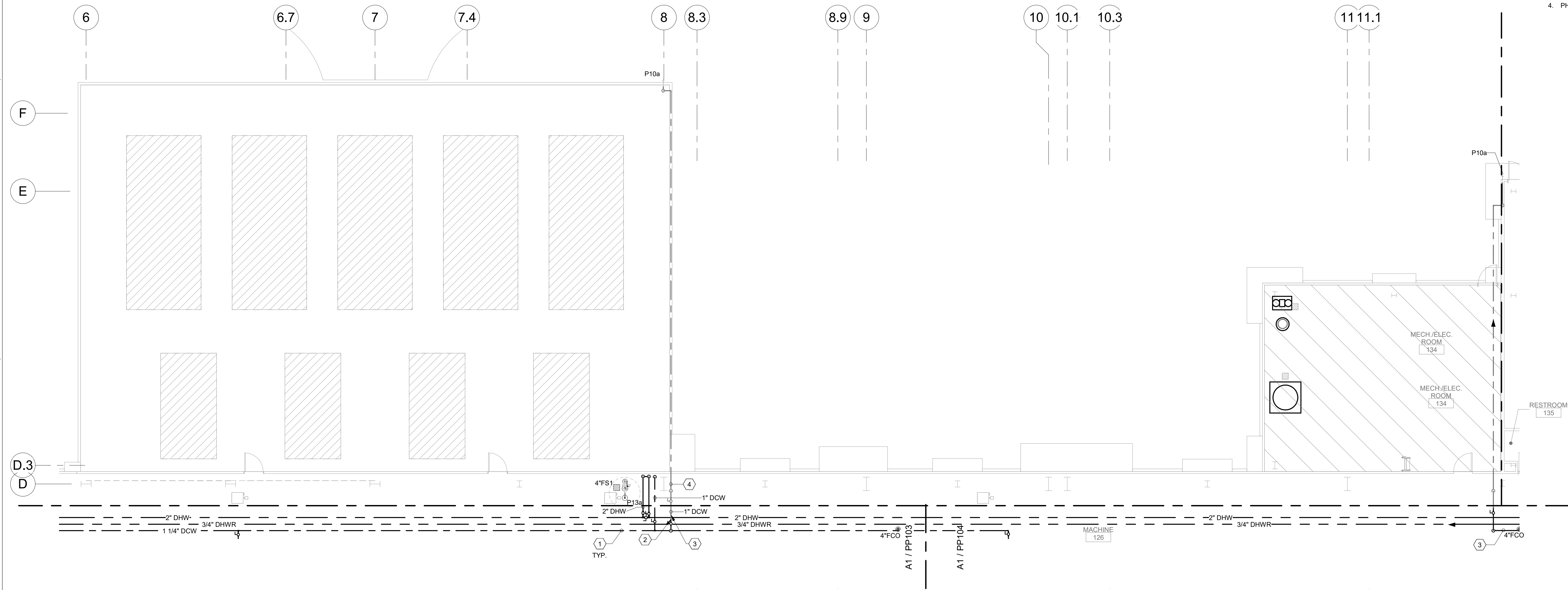
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Bridgers & Paxton Project No. 8286

A B C D E F

A1 PRESSURE PIPING FLOOR PLAN - AREA H MECHANICAL

1/8" = 1'-0"



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
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- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- ALL DCW/DHW/DHR PIPING ROUTED IN FACTORY FLOOR AREA SHALL BE INSTALLED AS PART OF PHASE 2.
- ALL PLUMBING FIXTURES SHOWN IN FACTORY FLOOR AREAS SHALL BE INSTALLED AS PART OF PHASE 2.
- ALL DCW/DHW/DHR PIPING ROUTED IN MECH ROOM/COMPRESSOR ROOM AREA SHALL BE INSTALLED AS PART OF PHASE 3.

SHEET KEYNOTES

- PHASE 2: INSTALL DCW PIPING IN CEILING SPACE.
- PHASE 2: CAP DCW PIPING IN CEILING TO ALLOW FOR CONNECTION IN PHASE 3.
- PHASE 3: CONNECT AND EXTEND DCW PIPING TO MECH SPACE.
- PHASE 3: INSTALL DCW PIPING IN MECH SPACE.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
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SHEET TITLE

**PRESSURE PIPING
FLOOR PLAN -
AREA H MECH**

SHEET NUMBER

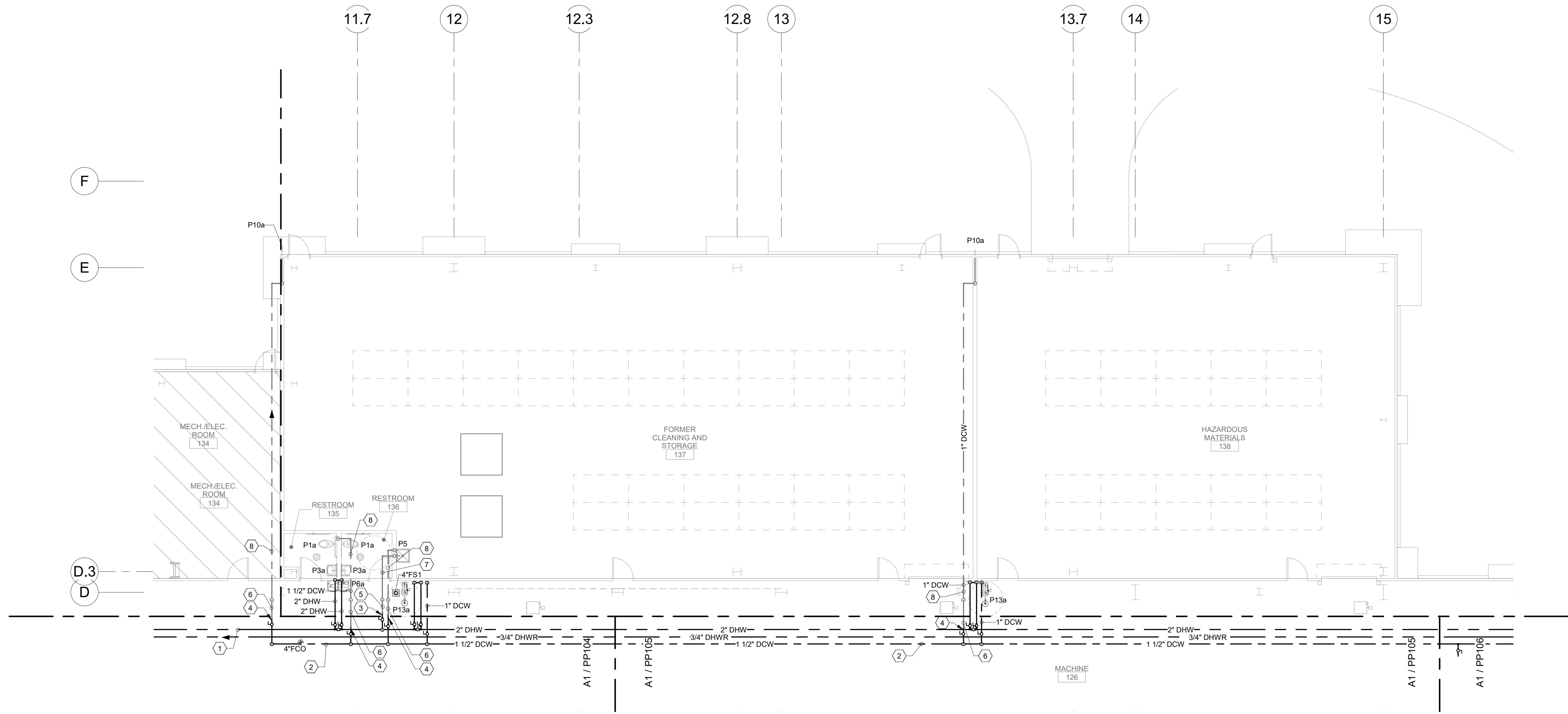
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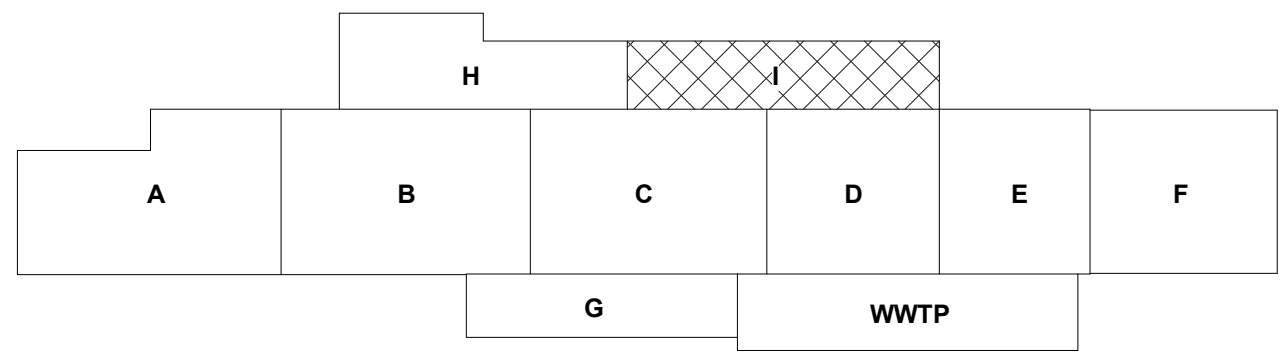
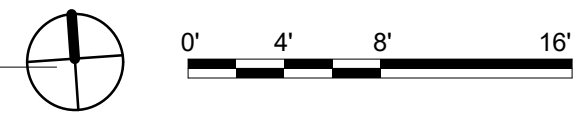
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A B C D E F



A1 PRESSURE PIPING FIRST FLOOR PLAN - AREA I MECHANICAL
1/8" = 1'-0"



GENERAL NOTES

- REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
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- REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- ALL DCW/DHW/DHR PIPING ROUTED IN FACTORY FLOOR AREA SHALL BE INSTALLED AS PART OF PHASE 2.
- ALL PLUMBING FIXTURES SHOWN IN FACTORY FLOOR AREAS SHALL BE INSTALLED AS PART OF PHASE 2.
- ALL DCW/DHW/DHR PIPING ROUTED IN FORMER CLEANING AND STORAGE AREA SHALL BE INSTALLED AS PART OF PHASE 3.

SHEET KEYNOTES

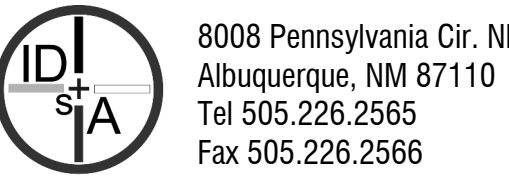
- PHASE 2: INSTALL DHW PIPING IN CEILING SPACE.
- PHASE 2: INSTALL DCW PIPING IN CEILING SPACE.
- PHASE 2: CAP DHW PIPING IN CEILING TO ALLOW FOR CONNECTION IN PHASE 3.
- PHASE 2: CAP DCW PIPING IN CEILING TO ALLOW FOR CONNECTION IN PHASE 3.
- PHASE 3: CONNECT AND EXTEND DHW PIPING TO MECH SPACE.
- PHASE 3: CONNECT AND EXTEND DCW PIPING TO MECH SPACE.
- PHASE 3: INSTALL DHW PIPING IN MECH SPACE.
- PHASE 3: INSTALL DCW PIPING IN MECH SPACE.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
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CONSULTANT INFO & LOGO



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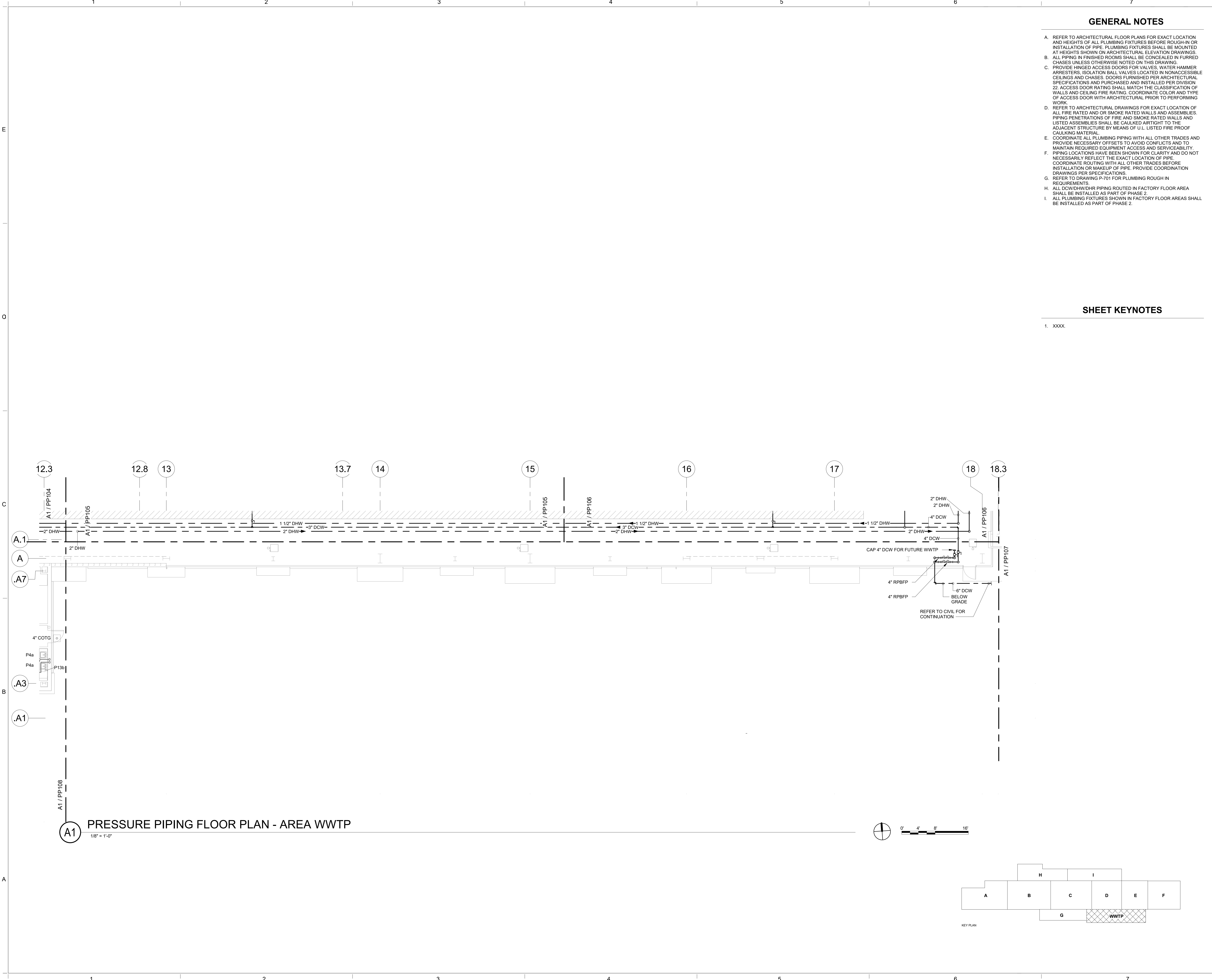
**PRESSURE PIPING
FLOOR PLAN -
AREA I MECH**

SHEET NUMBER

PP110

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GENERAL NOTES

- A. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATION AND HEIGHTS OF ALL PLUMBING FIXTURES BEFORE ROUGH-IN OR INSTALLATION OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS.
- B. ALL PIPING IN FINISHED ROOMS SHALL BE CONCEALED IN FURRED CHASES UNLESS OTHERWISE NOTED ON THIS DRAWING.
- C. PROVIDE HINGED ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTERS, ISOLATION BALL VALVES LOCATED IN NONACCESSIBLE CEILINGS AND CHASES. DOORS FURNISHED PER ARCHITECTURAL SPECIFICATIONS AND PURCHASED AND INSTALLED PER DIVISION 22. ACCESS DOOR RATING SHALL MATCH THE CLASSIFICATION OF WALLS AND CEILING FIRE RATING. COORDINATE COLOR AND TYPE OF ACCESS DOOR WITH ARCHITECTURAL PRIOR TO PERFORMING WORK.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND OR SMOKE RATED WALLS AND ASSEMBLIES. PIPING PENETRATIONS OF FIRE AND SMOKE RATED WALLS AND LISTED ASSEMBLIES SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. LISTED FIRE PROOF CAULKING MATERIAL.
- E. COORDINATE ALL PLUMBING PIPING WITH ALL OTHER TRADES AND PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- F. PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE EXACT LOCATION OF PIPE. COORDINATE ROUTING WITH ALL OTHER TRADES BEFORE INSTALLATION OR MAKEUP OF PIPE. PROVIDE COORDINATION DRAWINGS PER SPECIFICATIONS.
- G. REFER TO DRAWING P-701 FOR PLUMBING ROUGH IN REQUIREMENTS.
- H. ALL DCW/DHW/DHR PIPING ROUTED IN FACTORY FLOOR AREA SHALL BE INSTALLED AS PART OF PHASE 2.
- I. ALL PLUMBING FIXTURES SHOWN IN FACTORY FLOOR AREAS SHALL BE INSTALLED AS PART OF PHASE 2.

SHEET KEYNOTES

- 1. XXXX

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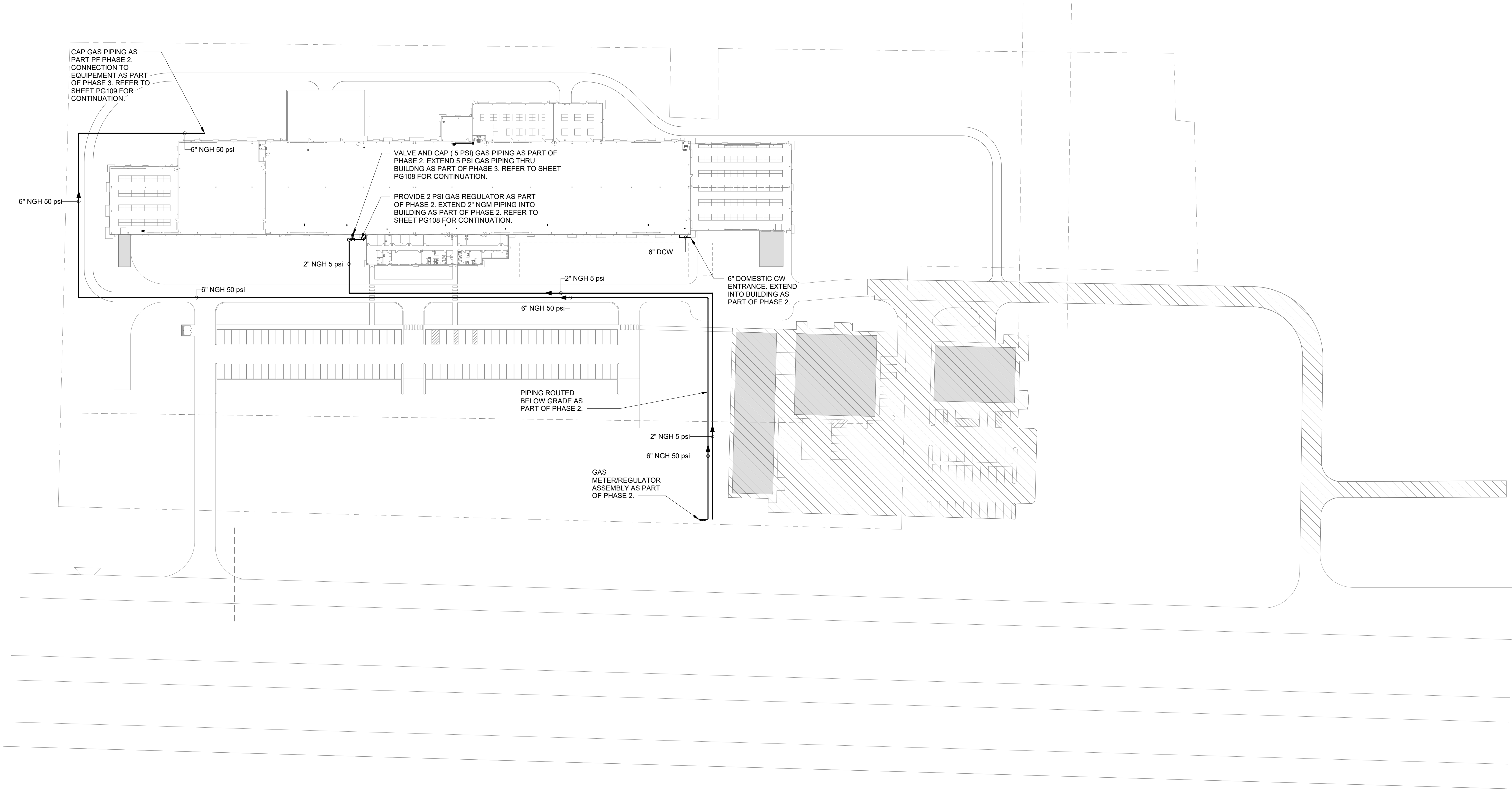
PRESSURE PIPING FLOOR PLAN - AREA WWTP

SHEET NUMBER

PP111

Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 12:02:02 PM BIM 360://Church Rock Phase II Factory/8286_MEP_Church Rock Factory.rvt



B1 PLUMBING SITE PLAN
1/64" = 1'-0"



GENERAL NOTES

A. INSTALL ALL SITE NATURAL GAS PIPING AS PART PF PHASE 2.

SHEET KEYNOTES

1. XXXX

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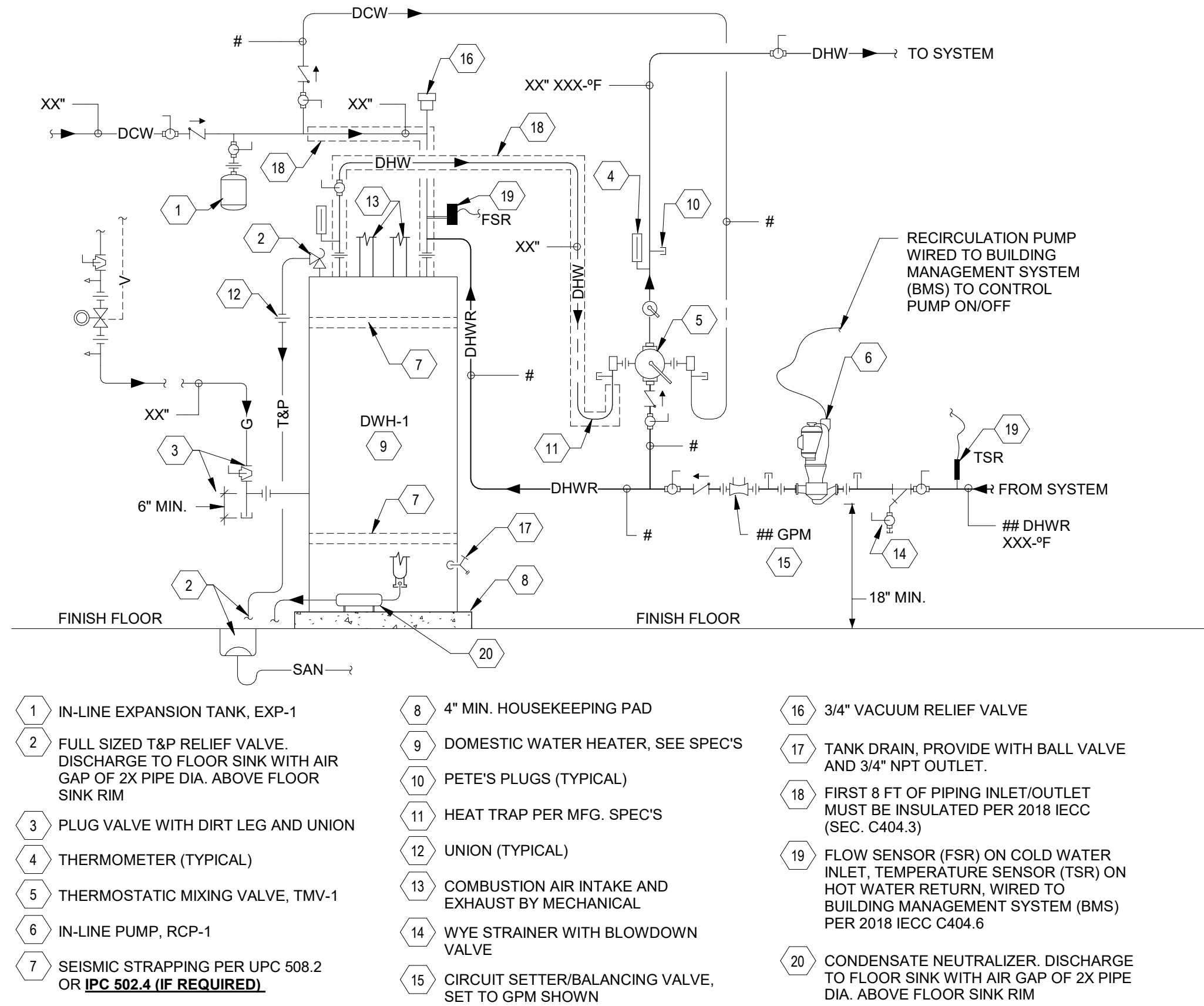
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PLUMBING SITE PLAN

SHEET NUMBER

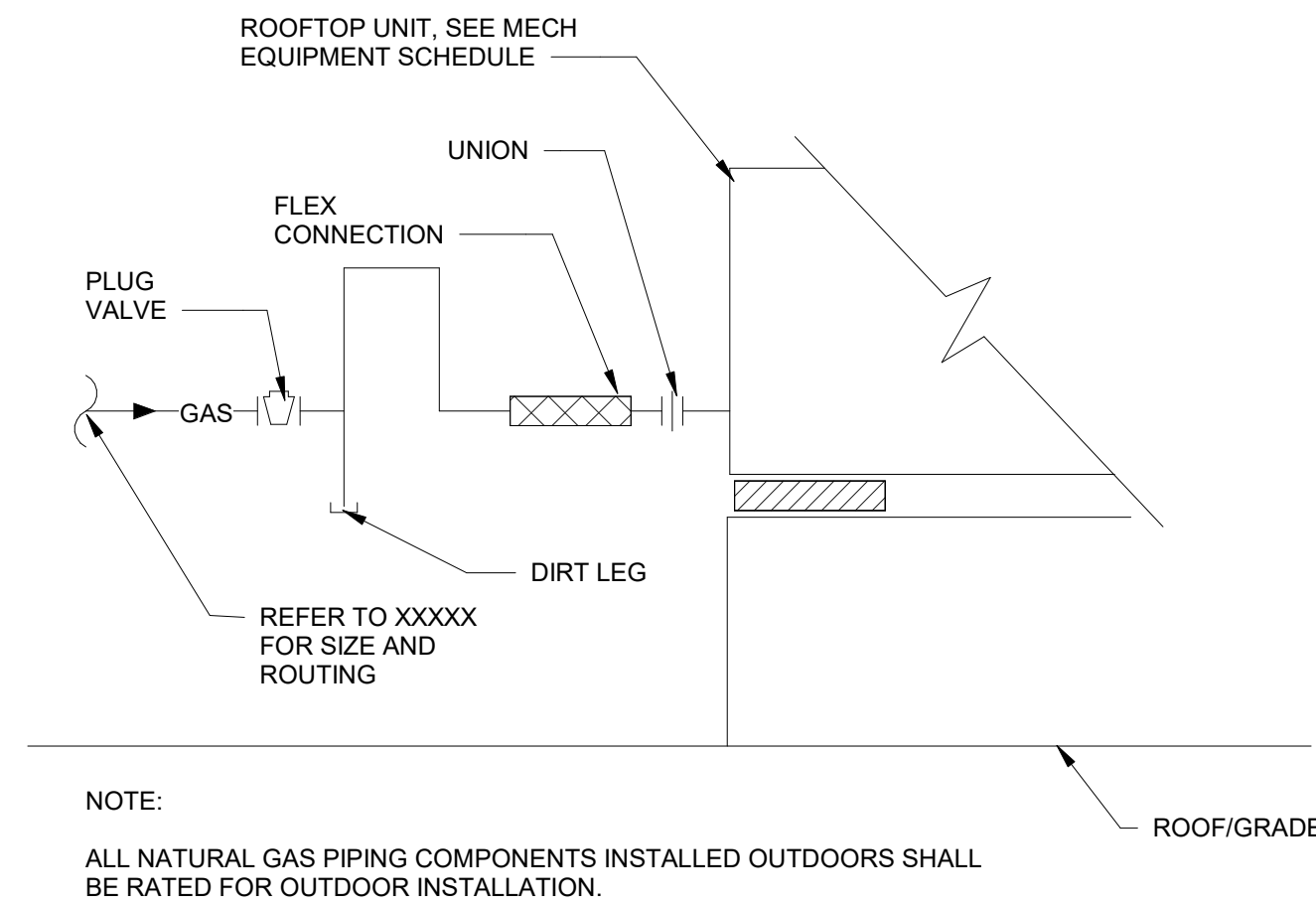
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Sequence of



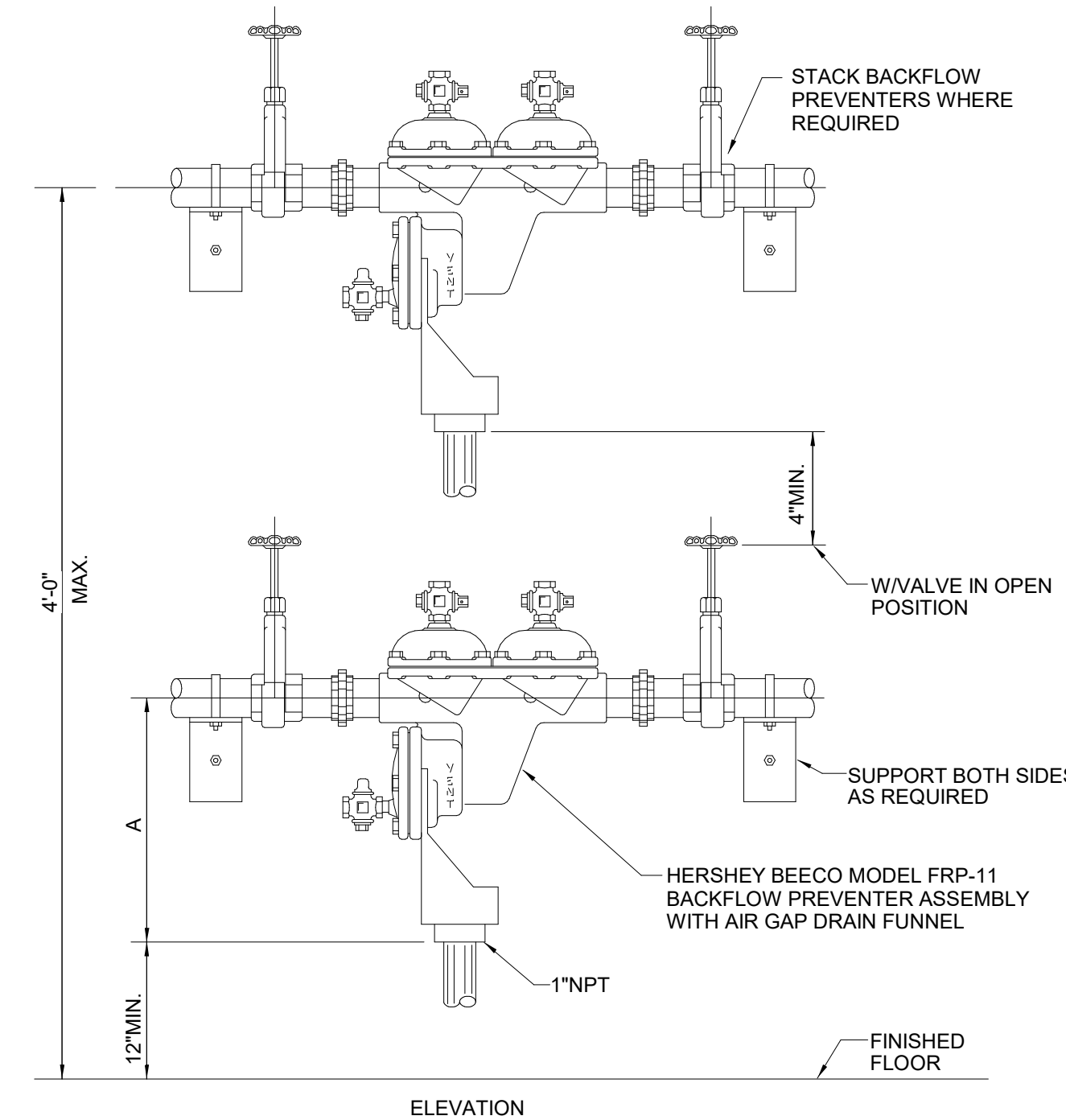
10 DOMESTIC WATER HEATER DETAIL - 2018 IECC

SCALE: NOT TO SCALE



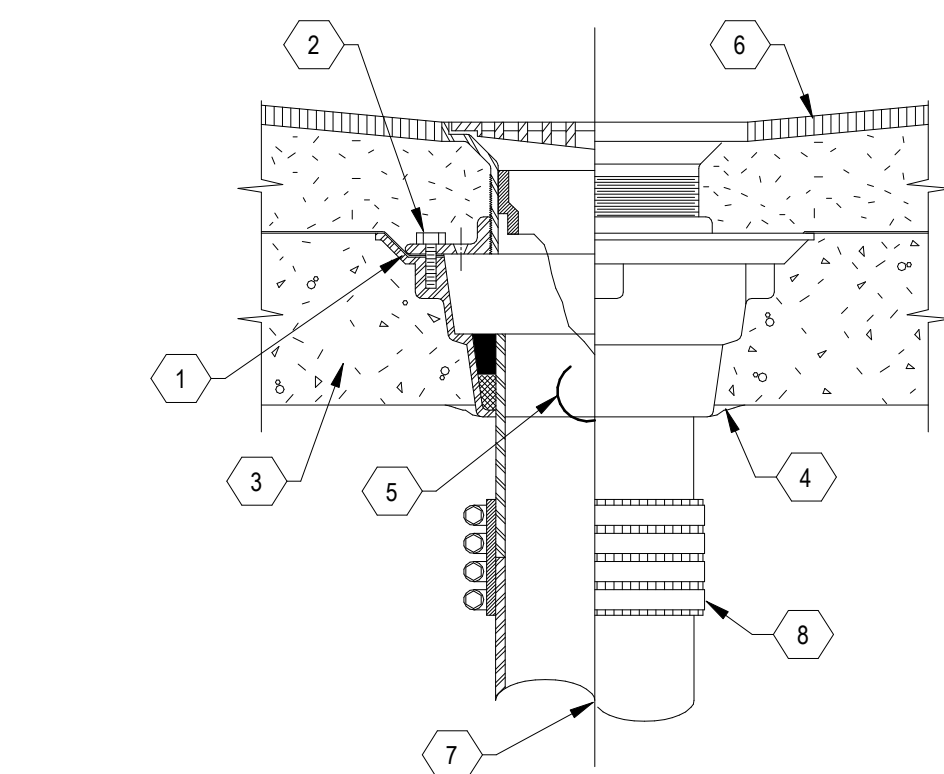
9 GAS ROOFTOP UNIT CONNECTION DETAIL

SCALE: NOT TO SCALE



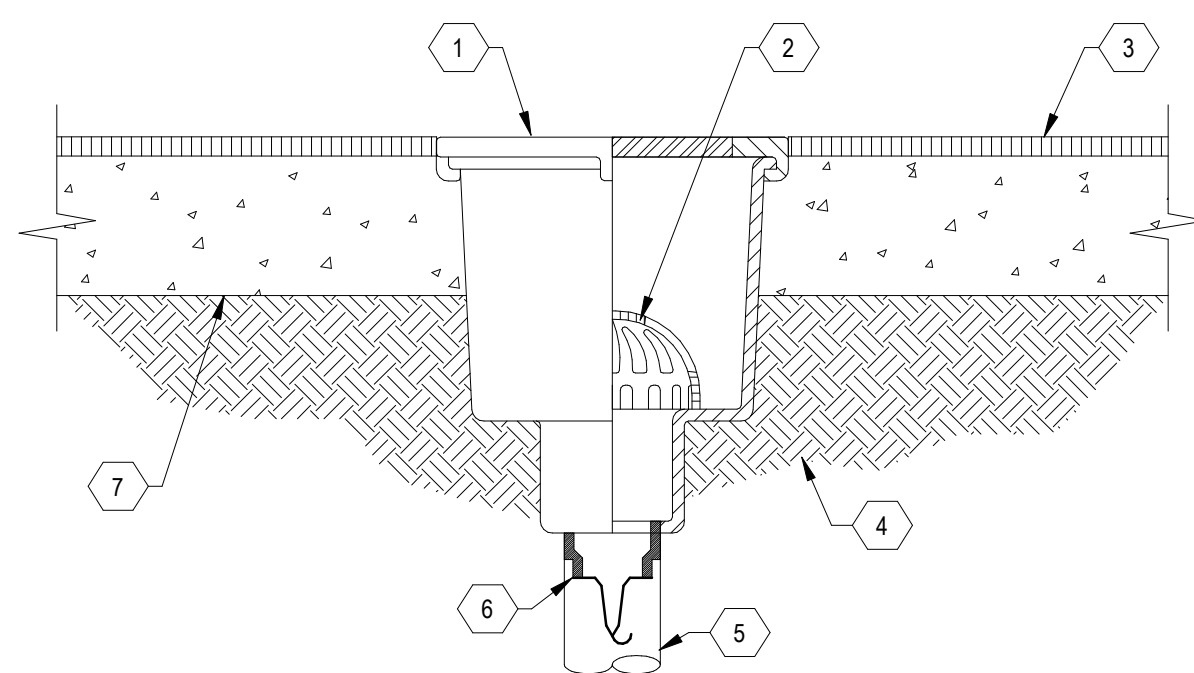
5 BACKFLOW PREVENTER INSTALLATION DETAIL

SCALE: NOT TO SCALE



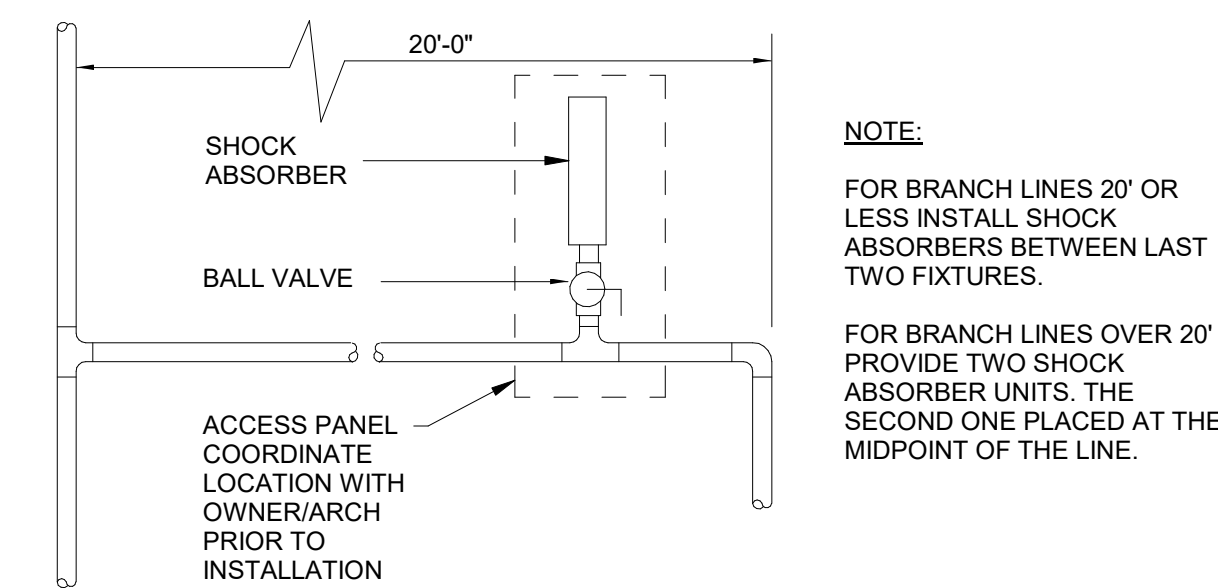
8 FLOOR DRAIN DETAIL

SCALE: NOT TO SCALE



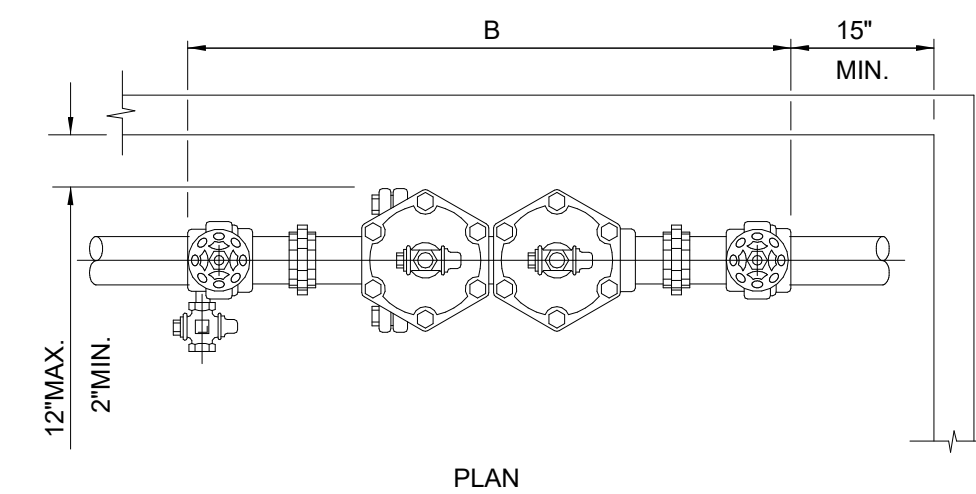
7 FLOOR SINK DETAIL

SCALE: NOT TO SCALE



6 SHOCK ABSORBER INSTALLATION

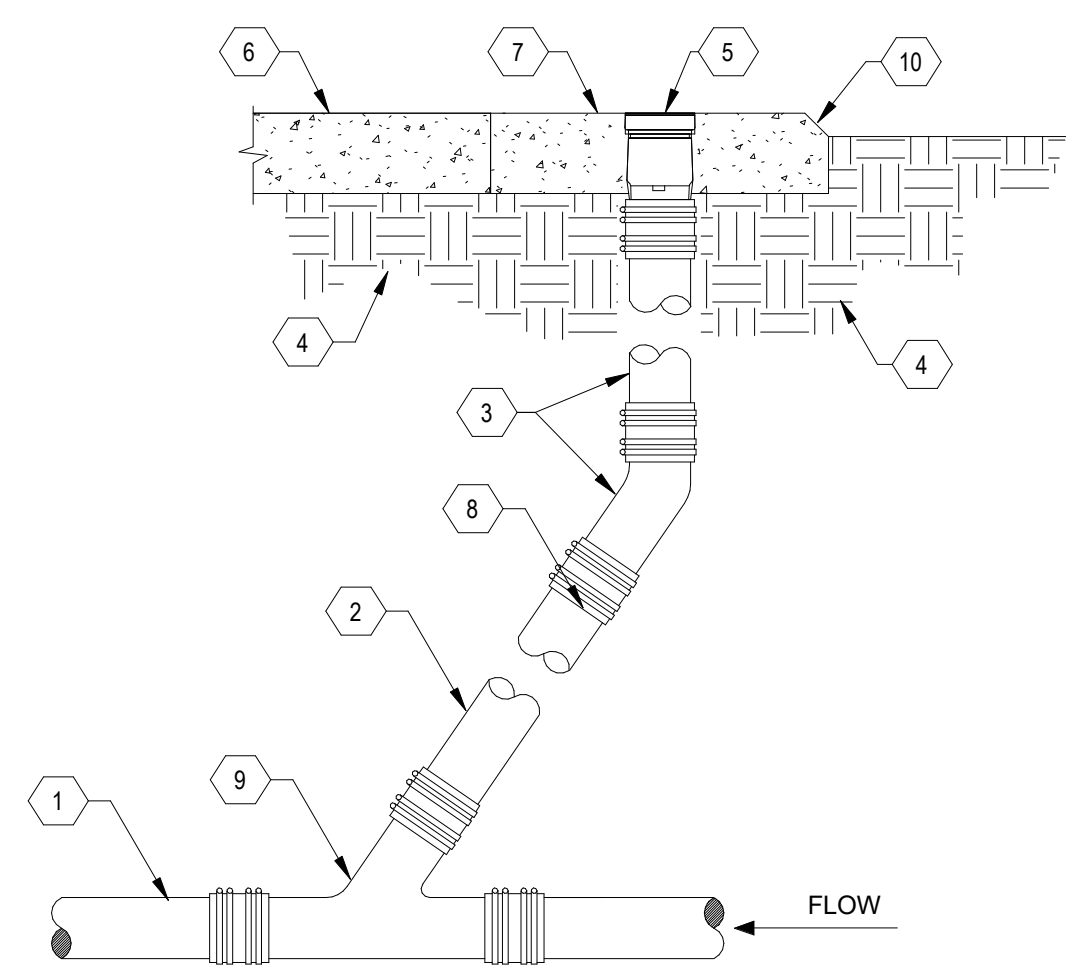
SCALE: NOT TO SCALE



DIMENSIONS AND WEIGHTS

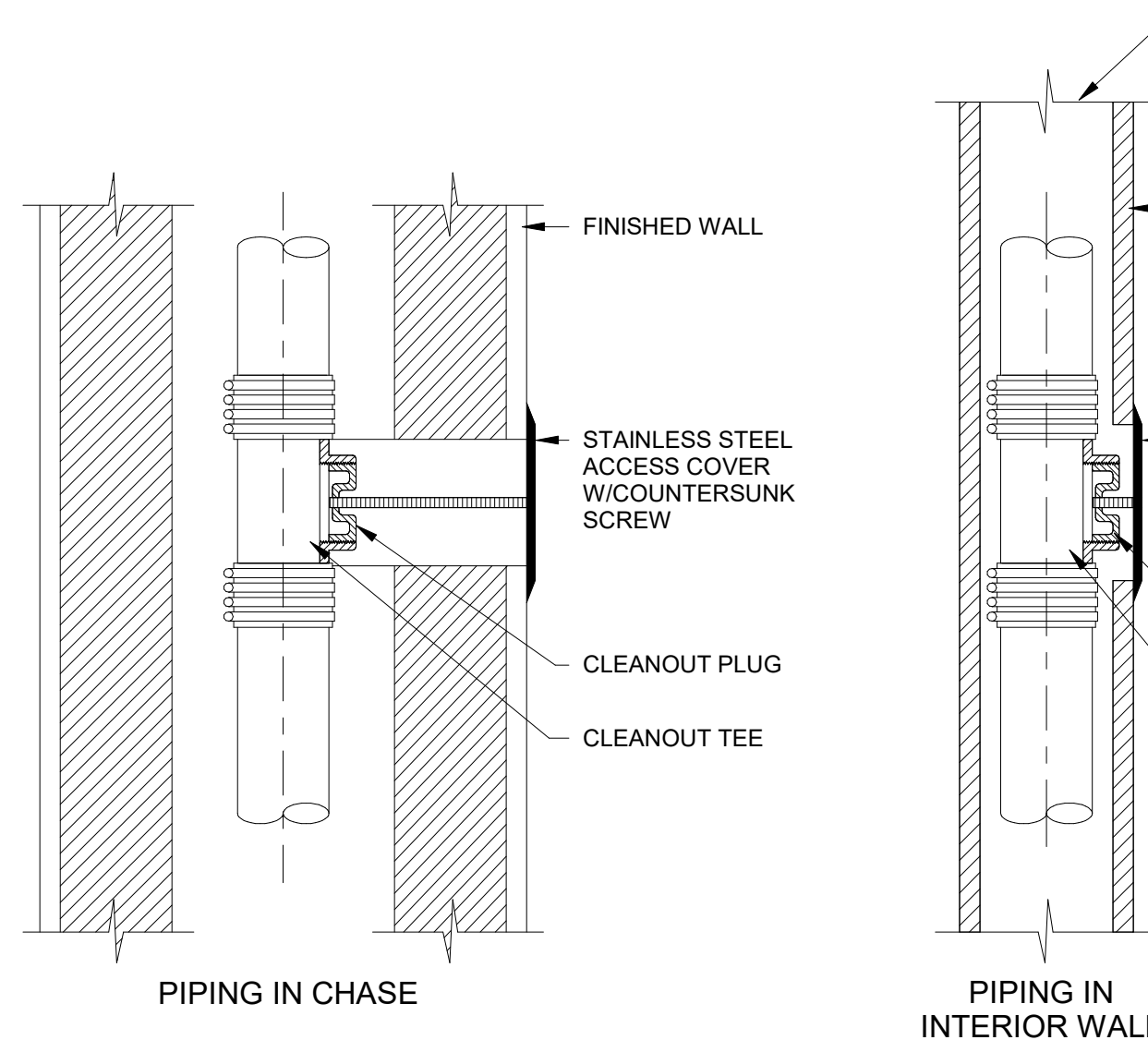
UNIT SIZE	A	B	UNIT WT. APPROX.
3/4"	7 1/2"	18"	20 LBS.
1"	7 1/2"	19"	22 LBS.
1 1/4"	9 1/2"	24"	44 LBS.
1 1/2"	9 1/2"	24"	46 LBS.
2"	9-3/4"	28"	50 LBS.

NOTE: THE BACKFLOW PREVENTER ASSEMBLY SHALL BE FURNISHED BY THE LABORATORY (ENG-6) AND SHALL BE INSTALLED BY THE CONTRACTOR



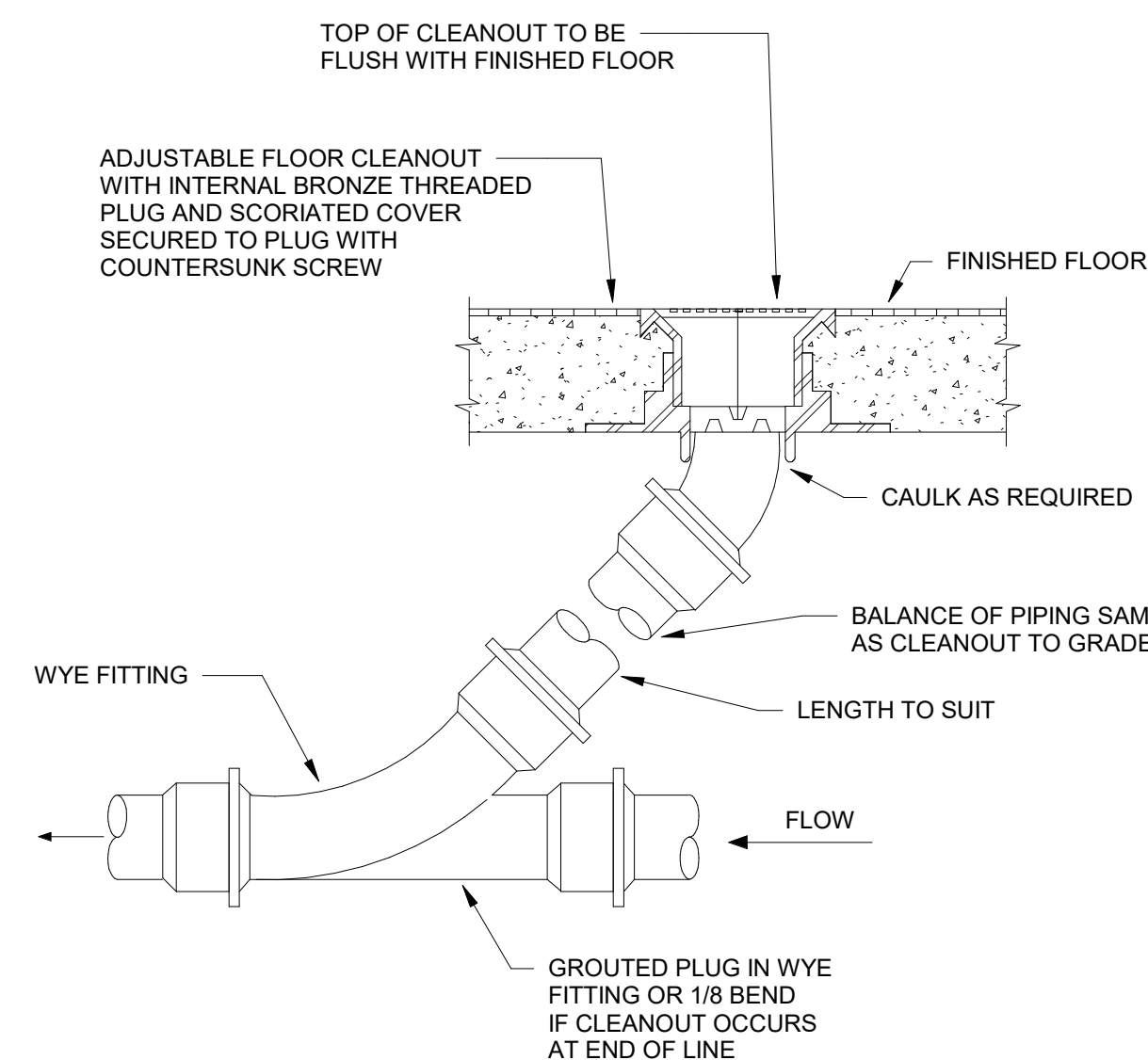
4 CLEANOUT TO GRADE DETAIL

SCALE: NOT TO SCALE



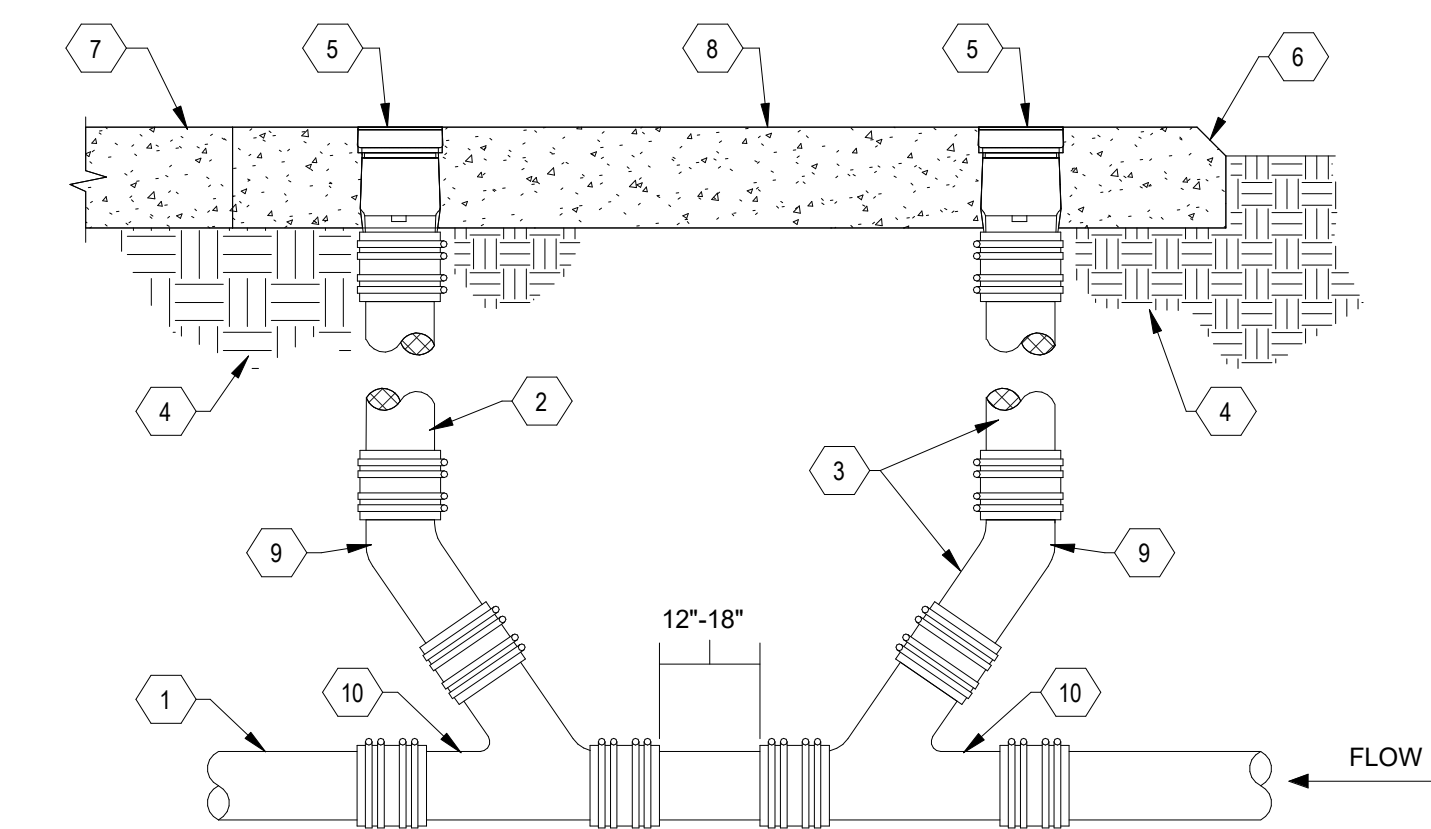
3 WALL CLEANOUT DETAIL

SCALE: NOT TO SCALE



2 FLOOR CLEANOUT

SCALE: NOT TO SCALE



1 DOUBLE CLEANOUT TO GRADE - DETAIL

SCALE: NOT TO SCALE

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PLUMBING
DETAILS

SHEET NUMBER

P-501

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Bridgers & Paxton Project No. 8286

PLUMBING FIXTURE SCHEDULE											
REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION											
SYMBOL	FIXTURE			TRIM/FAUCET			ELECTRICAL				REMARKS:
	TYPE	MANUFACTURER	MODEL	MANUFACTURER	MODEL	FLOW RATE	V	PH	HZ	A	
P1a	WATER CLOSET (BARRIER FREE) - FLOOR MTD. - FLUSH VALVE MANUAL	AMERICAN STANDARD	3461.001	SLOAN	ROYAL 111-1.28	1.28					MANUAL, EXPOSED, CHROME PLATED, LOW FLOW. SEAT: HEAVY DUTY, OPEN FRONT LESS COVER, SOLID PLASTIC, WHITE, MFG. CHURCH 9500SSC OR EQUAL
P1b	WATER CLOSET - FLOOR MTD. - FLUSH VALVE MANUAL	AMERICAN STANDARD	3451.001	SLOAN	ROYAL 111-1.28	1.28					MANUAL, EXPOSED, CHROME PLATED, LOW FLOW. SEAT: HEAVY DUTY, OPEN FRONT LESS COVER, SOLID PLASTIC, WHITE, MFG. CHURCH 9500SSC OR EQUAL
P2	URINAL (BARRIER FREE) - WALL MTD. - FLUSH VALVE	KOHLER	K-4991-ET	SLOAN	ROYAL 186-0.125	0.125 GPF					MANUAL, EXPOSED, CHROME PLATED, LOW FLOW
P3a	LAVATORY - COUNTER TOP	AMERICAN STANDARD	CADET 0419.444EC	CHICAGO FAUCETS	802-VE2805ABCP	0.5 GPM					DECK MOUNT, MANUAL, CHROME, LEVER HANDLES, VANDAL PROOF, 4" CENTERS
P4a	COUNTER SINK (BARRIER FREE)	XXXX	XXXX	XXXX	XXXX	0.5 GPM					MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK. PROVIDE EMERGENCY EYEWASH WITH THERMOSTATIC MIXING VALVE. MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK.
P4b	COUNTER SINK (BARRIER FREE)	XXXX	XXXX	XXXX	XXXX	0.5 GPM					MIXING VALVE: WATTS MODEL LFUSG-B UNDER SINK.
P5	SERVICE SINK	FIAT PRODUCTS	TSB3012	CHICAGO FAUCETS	897-CCP	2.5 GPM					WALL MOUNTED, SERVICE FAUCET 42" ABOVE FLOOR, CHROME PLATED WITH VACUUM BREAKER. INTEGRAL CHECK STOPS, WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. PROVIDE: INTEGRAL STAINLESS STEEL STRAINER DRAIN, HOSE AND BRACKET, 30" LONG FLEXIBLE HEAVY DUTY 5/8" RUBBER HOSE, MFG: FIAT NO. 832 AA. MOP BRACKET, 24" LONG X 3" WIDE. STAINLESS STEEL WITH THREE RUBBER GRIPS. MFG: FIAT NO. 889 CC.
P6a	ELECTRIC WATER COOLER W/BOTTLE FILLER (BARRIER FREE)	---	HTHB-HVRGRN8BL-WF	-	-	8 GPH					BI-LEVEL, WALL MOUNTED, SENSOR OPERATED BOTTLE FILLER, VANDAL RESISTANT, HEAVY-DUTY, GALVANIZED FRAME SHALL SUPPORT 14 GAUGE STAINLESS STEEL EXTERIOR PANELS, 8 GPH CAPACITY AT 90 DEGREE AMBIENT AND 50 DEGREE WATER OUTLET.
P7a	SHOWER (BARRIER FREE)	BUILT-UP ENCLOSURE PER ARCHITECT'S SPECIFICATIONS, SHOWER TRIM AS SPECIFIED	-	SYMMONS	No. C-96-500-B30-V-1.5-CH KS-VP-X	1.5 GPM					TEMP/TROL PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL VOLUME CONTROL AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. WALL/ HAND SHOWER WITH FLEXIBLE 5' METAL HOSE, WALL CONNECTION AND FLANGE, 30" SLIDE BAR FOR HAND SHOWER MOUNTING, INTEGRAL SERVICE STOPS AND IN-LINE VACUUM BREAKER.
P7b	SHOWER	BUILT-UP ENCLOSURE PER ARCHITECT'S SPECIFICATIONS, SHOWER TRIM AS SPECIFIED	-	SYMMONS	No. C-96-500-B30-V-X.	1.5 GPM					TEMP/TROL PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL VOLUME CONTROL AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. WALL/ HAND SHOWER WITH FLEXIBLE 5' METAL HOSE, WALL CONNECTION AND FLANGE, 30" SLIDE BAR FOR HAND SHOWER MOUNTING, INTEGRAL SERVICE STOPS AND IN-LINE VACUUM BREAKER.
P10a	WALL HYDRANT	WOODFORD	B65P	-	-	-					FREEZE-PROOF, INTEGRAL VACUUM BREAKER, WITH LOOSE-KEY, LOCKABLE DOOR.
P13b	SUPPLY BOX CW HW	XXXXX	XXXXX	-	-	-					3/4" INLET AND 3/4" GARDEN HOSE OUTLET, CHROME PLATED FINISH
P13a	EMERGENCY EYEWASH/SHOWER	BRADLEY	S19314DCBF	-	-	20 GPM					PROVIDE WITH BRADLEY NAVIGATOR VALVE S19-2150, VALVE SHALL MEET ANSI Z358.1 UNIT SHALL MEET ALL BARRIER FREE REQUIREMENTS. PROVIDE: 3" CAST IRON P-TRAP.

REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION							
SYMBOL	FIXTURE	ROUGH-IN SIZE			VENT	TRAP	REMARKS:
		CW	HW	WASTE			
P1a	WATER CLOSET (BARRIER FREE) - FLOOR MTD. - FLUSH VALVE MANUAL	1"	-	4"	2"	INTEGRAL	ELONGATED BOWL, VITREOUS CHINA, 1-1/2" TOP SPUD. NOTE: REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS.
P1b	WATER CLOSET - FLOOR MTD. - FLUSH VALVE MANUAL	1"	-	4"	2"	INTEGRAL	ELONGATED BOWL, VITREOUS CHINA, 1-1/2" TOP SPUD. NOTE: REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS.
P2	URINAL (BARRIER FREE) - WALL MTD. - FLUSH VALVE	3/4"	-	2"	2"	INTEGRAL	WHITE VITREOUS CHINA, 3/4" TOP SPUD. NOTE: REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS.
P3a	LAVATORY - COUNTER TOP	1/2"	1/2"	1-1/2"	1-1/2"	1-1/4" X 1-1/2"	XXX
P4a	COUNTER SINK (BARRIER FREE)	1/2"	1/2"	1-1/2"	1-1/2"	1-1/4" X 1-1/2"	COUNTER TOP, THREE HOLE, VITREOUS CHINA, OVAL, 21" X 17-5/8".
P4b	COUNTER SINK (BARRIER FREE)	1/2"	1/2"	1-1/2"	1-1/2"	1-1/4" X 1-1/2"	XXX
P5	SERVICE SINK	1/2"	1/2"	3"	1-1/2"	3"	FLOOR MOUNTED; TERRAZZO, 36"x36"x12" DEEP, 3" DRAIN. PROVIDE: 3" CAST IRON P-TRAP.
P6a	ELECTRIC WATER COOLER W/BOTTLE FILLER (BARRIER FREE)	1/2"	-	2"	1-1/2"	1-1/4" X 1-1/2"	NOTE: PROVIDE WITH 3 WIRE GROUNDING TYPE CORD AND PLUG, UL LISTED, 115V/1PH/60HZ.
P7a	SHOWER (BARRIER FREE)	1/2"	1/2"	2"	1-1/2"	2"	PROVIDE: PAN LINER SHALL BE FURNISHED BY PLUMBING CONTRACTOR. 2" SHOWER DRAIN (SEE DRAIN SCHEDULE), 2" CAST IRON P-TRAP.
P7b	SHOWER	1/2"	1/2"	2"	1-1/2"	2"	PROVIDE: PAN LINER SHALL BE FURNISHED BY PLUMBING CONTRACTOR. 2" SHOWER DRAIN (SEE DRAIN SCHEDULE), 2" CAST IRON P-TRAP.
P10a	WALL HYDRANT	3/4"	-	-	-	-	FREEZE-PROOF, VERIFY WALL THICKNESS BEFORE ORDERING.
P13b	SUPPLY BOX CW HW	1/2"	1/2"	-	-	-	SPACE SAVER DESIGNED CW HW HOOK-UP. ROUGH OPENING: 10"Wx8-3/4"Hx3-1/2"D.
P13a	EMERGENCY EYEWASH/SHOWER	1"	1"	3"	-	-	VALVE: COMPRESSION ANGLE VALVE 1/2" FIP INLETx1/4" OUTLET SH-3.

WATER HEATER SCHEDULE																							
NOTE:ALL WATER HEATERS SHALL COMPLY FULLY WITH THE 2018 IECC TABLE C404.2, MINIMUM PERFORMANCE OF WATER-HEATING EQUIPMENT																							
SYMBOL	MANUFACTURER	MODEL NO.	LOCATION	SERVICE	TYPE	SET POINT (DEGREES)	FUEL	EFFICIENCY	STORAGE VOLUME (GAL.)	INPUT (BTUH)	ELEVATION	OPERATION WEIGHT	ELECTRICAL					HOT WATER RECOVERY		MIXING VALVE	EXPANSION TANK	STORAGE TANK	REMARKS:
													V	PH	HZ	AMPS	FLA	RATE (GPH)	Δ T °F				
WH-1	A.O. SMITH	BTH-300(A)	JANITOR	HOT WATER	TANK	140	NAT. GAS	96%	119	300,000	6,500	TBD	120	1	60			388	90	TMV-1	ST-12C	YES	PROVIDE WITH ACID NEUTRALIZATION KIT. INSTALL VENTING PER MANUFACTURES REQUIREMENTS. VENT TO EXTERIOR.
WH-2	A.O. SMITH	BTH-300(A)	JANITOR	HOT WATER	TANK	140	NAT. GAS	96%	119	300,000	6,500	TBD	120	1	60			388	90	TMV-2	ST-12C	YES	PROVIDE WITH ACID NEUTRALIZATION KIT. INSTALL VENTING PER MANUFACTURES REQUIREMENTS. VENT TO EXTERIOR.

PLUMBING EQUIPMENT SCHEDULE									
SYMBOL	MANUFACTURER	MODEL NO.	LOCATION	SERVICE	PIPE SIZE	PSI	REMARKS:		
CA-1 THRU CA-4	ATLAS COPCO	GA7SVSD+175 AFF	MECH RM.	LINE EQUIP.	2" DIA.	175 PSI	460V/3PH/60HZ 75 HP VARIABLE SPEED OIL INJECTED ROTARY SCREW AIR COMPRESSOR WITH "ELEKTRONIKON TOUCH" CONTROLLER, PERMANENT MAGNET MOTOR, AIR COOLED AFTER-COOLERS & INTEGRAL REFRIGERATED AIR DRYER & UD+ COMBO COALESCING/PARTICULATE POST FILTER. INTERCONNECT TO CONTROLLER SYSTEM.		
ES SYSTEM CONTROLLER	ATLAS COPCO	EQUALIZER 4.0	MECH RM.	AC-1 THRU AC-4			EQUALIZER 4.0 ES SYSTEM CONTROLLERFOR MULTIPLE MACHINE CONTROL. 4 MACHINES UP TO 4 VSD'S ALSO INCLUDES A 4 MACHINE CAN KIT WHICH INCLUDES: 75M CAN CABLE, 3 EA. CAN CONNECTORS(REGULAR) 1 EA. SERVICE CAN CONNECTOR & 1 EA. INSTRUCTION BOOKLET(1837002104) (8092284101)		
F-1	ATLAS COPCO	MLME-370	MECH RM.	LINE EQUIP.	2" DIA.		MIST ELIMINATOR RATED FOR UP TO 1004 CFM DOWNSTREAM OF DRYER (INSTALL BETWEEN DRYER POST FILTER AND STORAGE TANK) (8102120620)		
RT-1 AND RT-2	SPVG	C10331	MECH RM.	LINE EQUIP.	2" DIA.	200 PSI	1060 GALLON RECEIVER TANKS WITH SAFETY RELIEF VALVE, 0-200 PSI GAUGE, MANUAL & TIMED SOLENOID DRAIN VALVES & POWDER COATED EXTERIOR 200 PSI WORKING PRESSURE RATING SIZE: 48"O X 108" T WITH 8" BASE RING, WEIGHT: 3,900 LBS		
OS-1	ATLAS COPCO	OSC625	MECH RM.	LINE EQUIP.	2" DIA.		CLAY OIL/WATER SEPARATOR CONDENSATE MANAGEMENT SYSSEM FOR COMPRESSOR DRYER AND TANKS, (4 INLET'S)		

FLOOR/ROOF DRAIN SCHEDULE				
REFER TO DIVISION 22 4000 FOR ADDITIONAL INFORMATION				
SYMBOL	MANUFACTURER	MODEL	VENT	REMARKS:
FD1 ROU	ZURN	Z-415-B-VP-Z1000.	2"	7" DIAMETER, ROUND TYPE "B" STRAINER, POLISHED BRONZE, CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTABLE MEMBRANE CLAMP, DEEP SEAL P-TRAP VANDAL-PROOF SECURED TOP, DIAMETER OF OUTLET AS SHOWN ON DRAWINGS. PROVIDE WITH SURE SEAL IN-LINE TRAP SEAL. SIZE AND TYPE TO FIT DRAIN.
FS1	ZURN	Z-1900	2"	CAST IRON BODY WITH WHITE ACID RESISTING ENAMEL BODY INTERIOR, SLOTTED 3/4 LOOSE SET GRATE ALUMINUM ANTI-SPASH DOME STRAINER, (DEEP SEAL P-TRAP MFG. ZURN Z1000) DIAMETER OF OUTLET AS SHOWN ON DRAWINGS. PROVIDE WITH SURE SEAL IN-LINE TRAP SEAL. SIZE AND TYPE TO FIT DRAIN.
RD1	FROET	100C-LP-OFS-DC	-	ROOF SUMP RECEIVER, POWDER COATED CAST IRON SIDE OUTLET ROOF DRAIN. TOP OVERFLOW WITH FLASHING CLAMP, INTEGRAL GRAVEL STOP, SECURED DUCTILE, IRON DOME, UNDERDECK CLAMP,LOW PROFILE, OVERFLOW STRAINER, NO HUB OUTLETS, SIZE OF OUTLETS AS INDICATED ON DRAWINGS

CHURCH ROCK PHASE II FACTORY
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PLUMBING SCHEDULES

SHEET NUMBER

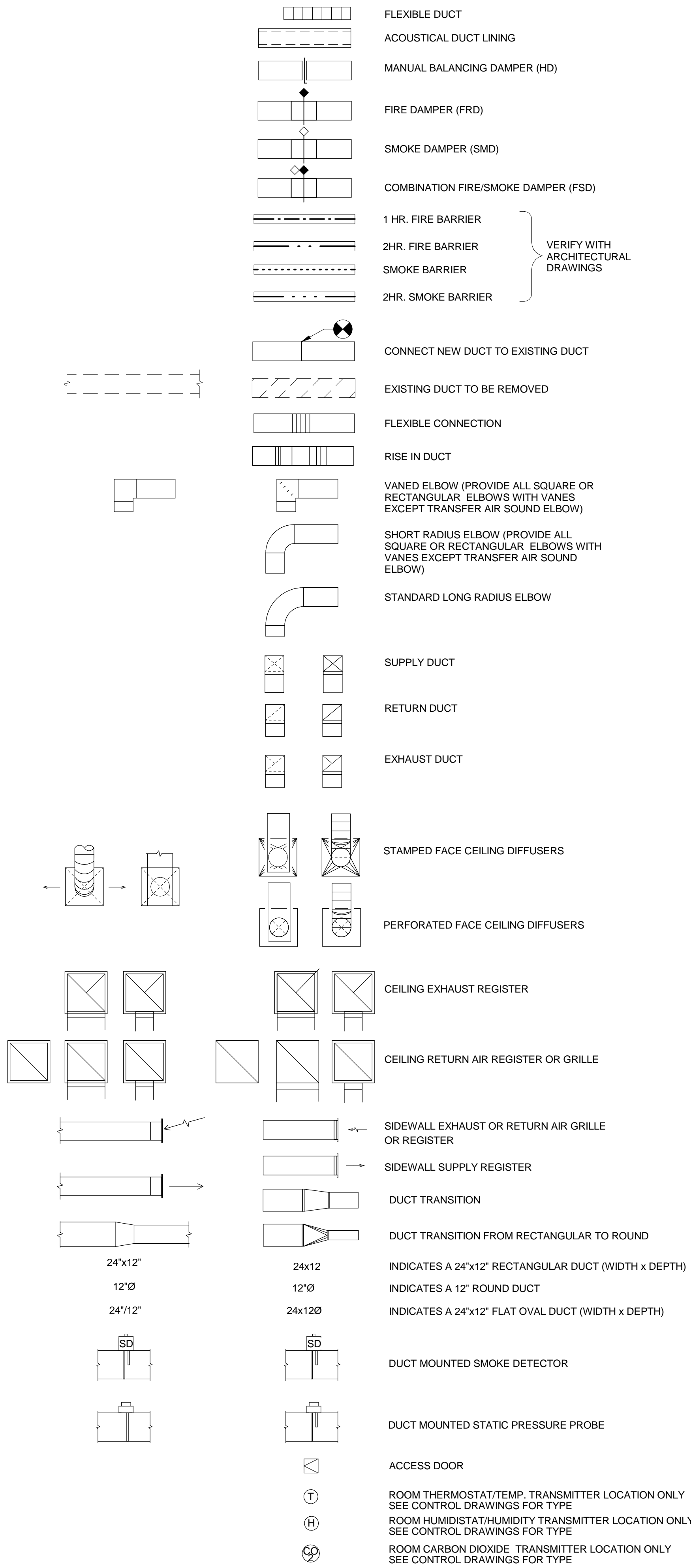
P-701
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Bridgers & Paxton Project No. 8286
BIM 360/Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt

ABBREVIATIONS

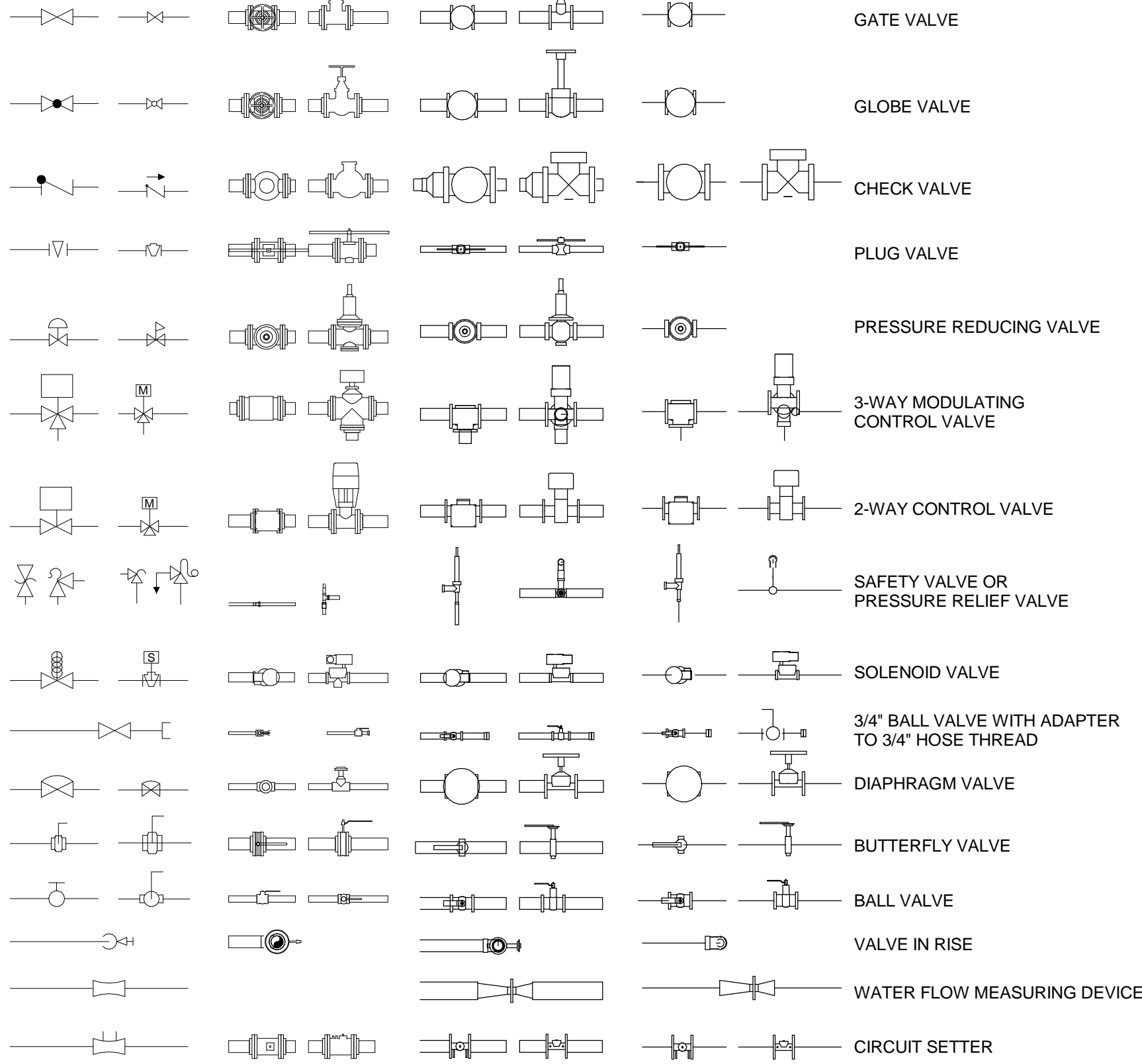
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTIC LINING
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CONT.	CONTINUATION
D	DRAIN
DX	DIRECT EXPANSION
ENT	ENTERING
EXH	EXHAUST
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
F	DEGREES FAHRENHEIT
FB	FLAT BOTTOM
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
F.G.	FILTER GAUGE
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FLAT TOP
FT.	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HAND DAMPER (VOLUME DAMPER)
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
IN	INCHES
KW	KILOWATT
KWH	KILOWATT HOUR
MA	MAIN AIR (CONTROLS)
MCC	MOTOR CONTROL CENTER
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER (QUANTITY)
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAGE
QTY	QUANTITY
QUAD	QUADRANT
R.A.	RETURN AIR
Rh	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SCD	SMOKE CONTROL DAMPER
SP	STATIC PRESSURE (INCHES OF WATER)
SDVV	SINGLE DUCT VARIABLE VOLUME
ST	SOUND TRAP
TOPT	TOP OF PIPE TRAPEZE
TP	TOTAL PRESSURE (INCHES OF WATER)
TYP.	TYPICAL
V	VOLTS
VAC	VOLTS, ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VTR	VENT THRU ROOF

DUCTWORK SYMBOLS

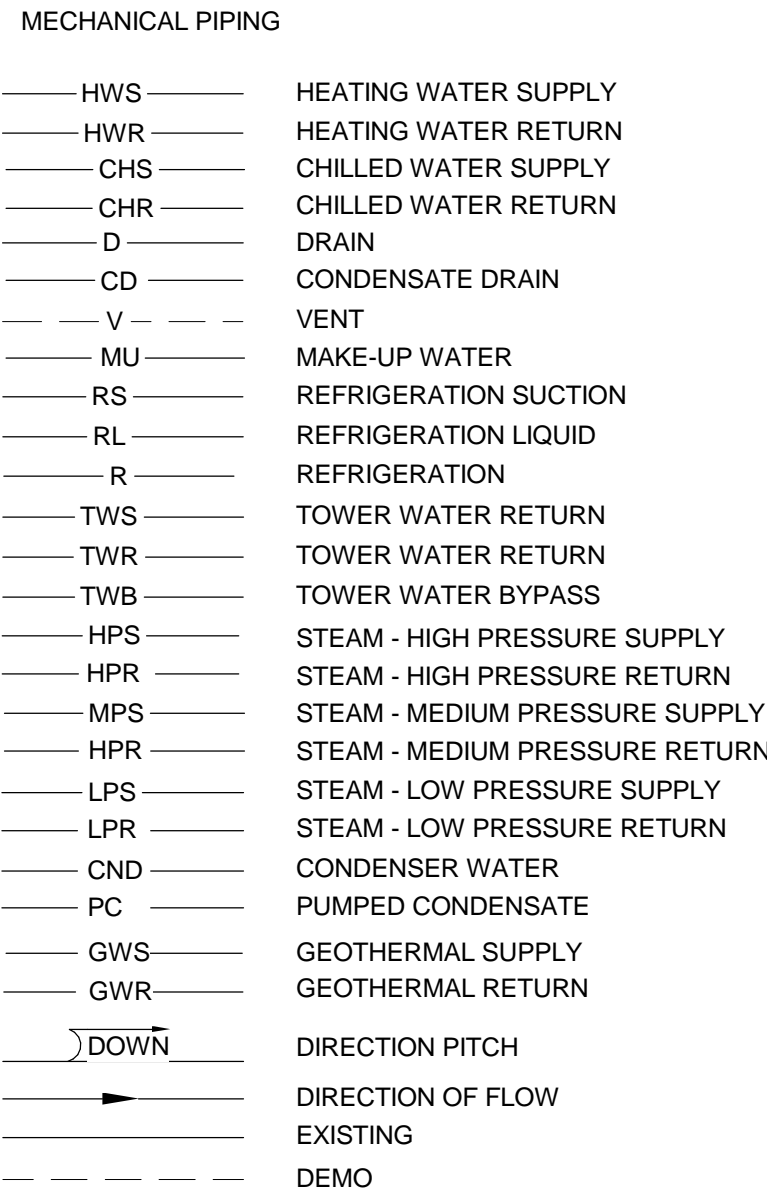


MECHANICAL SYMBOL LEGEND

VALVE SYMBOLS

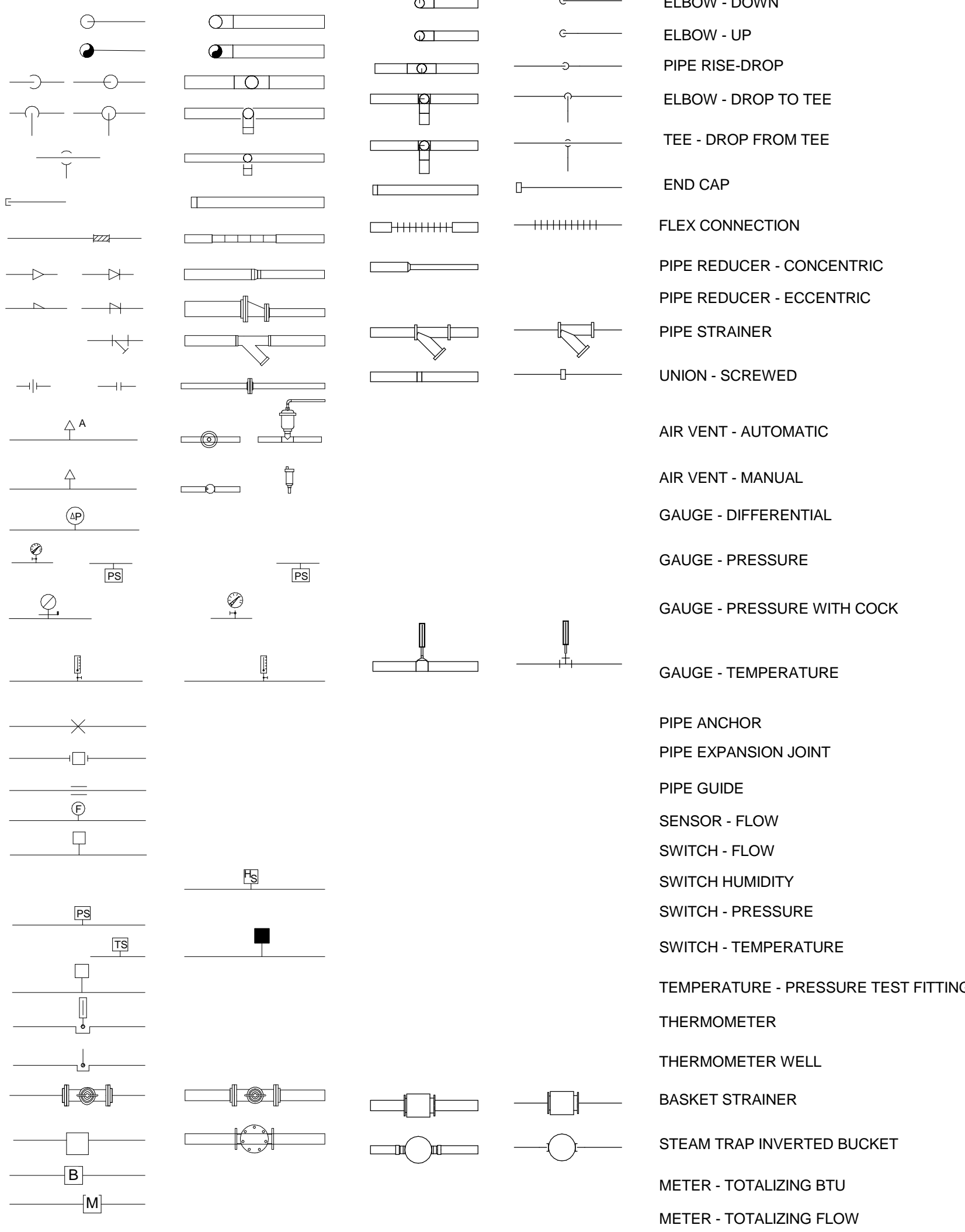


PIPING SYMBOLS

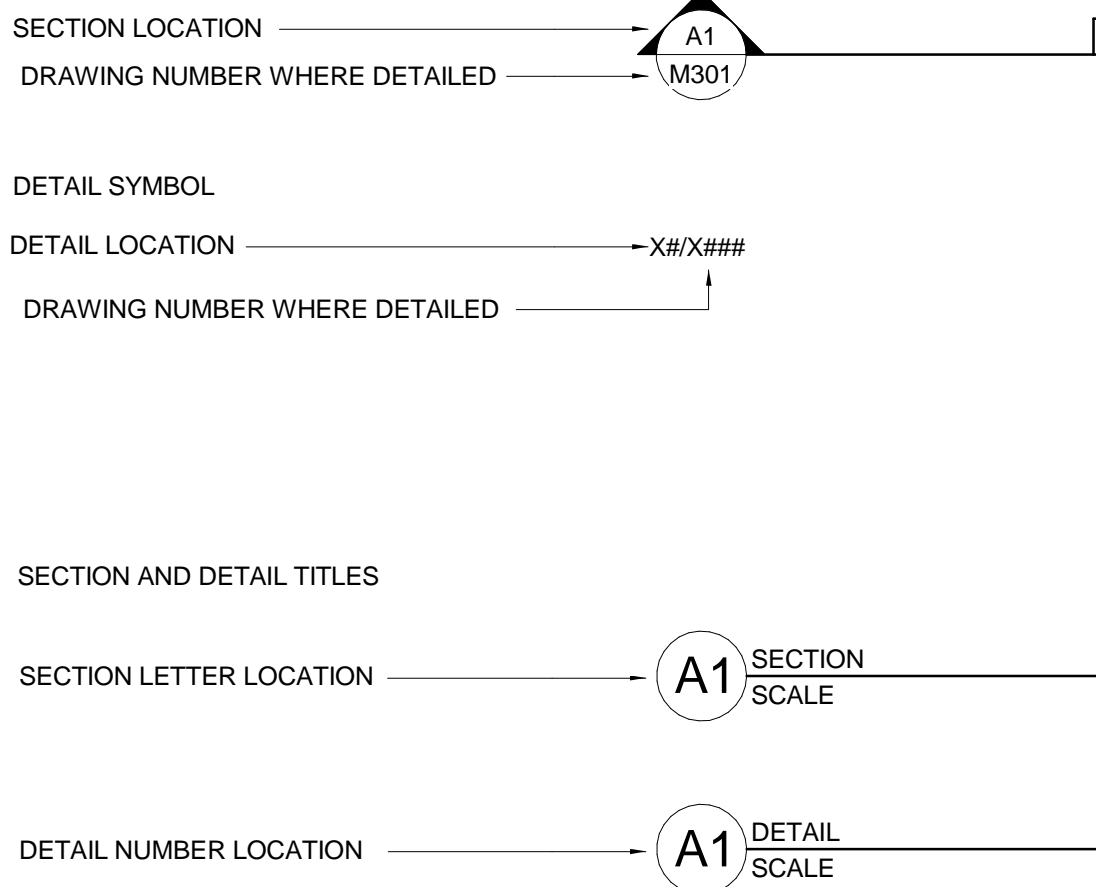


NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

FITTING SYMBOLS



SECTION SYMBOL



GENERAL NOTES

- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS, UNLESS OTHERWISE NOTED.
- PROVIDE ACCESS PANELS OR DOORS IN INACCESSIBLE CEILINGS AND/OR CHASES FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, COILS, FANS, CONTROLS, ETC. THEY SHALL BE FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATION. ACCESS DOOR RATING SHALL MATCH CLASSIFICATION OF WALL AND CEILING FIRE RATING.
- WATER PIPE CONNECTIONS TO WATER COILS SHALL BE MADE SO THERE WILL BE COUNTER FLOW BETWEEN WATER AND AIR.
- COORDINATE THE LOCATION OF ALL DIFFUSERS, GRILLES, REGISTERS, ACCESS DOORS, ETC., WITH THE ARCHITECTURAL REFLECTED CEILING PLAN(S).
- ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED DIFFUSER NECK SIZE.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS. PROVIDE ONE INCH ACOUSTICAL LINING (TYPE D3 INSULATION) IN LOW VELOCITY RECTANGULAR DUCTWORK FOR THE FIRST 10 DIAMETERS OF DUCTWORK CONNECTED TO DEVICE, OR AS INDICATED ON DRAWINGS, WHICHEVER IS GREATER. FOR THE REMAINDER OF THIS DUCTWORK PROVIDE AS INDICATED IN THE INSULATION SPECIFICATIONS.
- PROVIDE 1/2" MANUAL AIR VENTS AT ALL HIGH POINTS OF CLOSED SYSTEM PIPING AND 1/2" MANUAL DRAIN VALVES WITH HOSE CONNECTION AT LOW POINTS AS REQUIRED TO PROVIDE COMPLETE SYSTEM DRAINAGE. WHERE DRAIN VALVES OCCUR ABOVE CEILING AREAS AND IN AREAS OUTSIDE MECHANICAL RANGE PROVIDE HOSE CONNECTION ON VALVE.
- PROVIDE TURNING VANES IN ALL SQUARE ELBOWS, EXCEPT TRANSFER AIR SOUND ELBOWS.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND/OR SMOKE RATED WALLS AND ASSEMBLIES. PROVIDE APPROVED FIRE DAMPERS IN ALL REQUIRED PENETRATIONS FOR DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS. ALL PIPE AND DUCTWORK PENETRATIONS OF FIRE, SMOKE AND FULL HEIGHT WALLS SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. APPROVED FIRE PROOF CAULKING MATERIAL.
- CONTRACTOR SHALL COORDINATE ALL DUCTWORK, PIPING, PLUMBING AND FIRE PROTECTION PIPING WITH STRUCTURAL AND ELECTRICAL SYSTEMS AND SHALL PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
- CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES FOR INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT, DUCTWORK AND PIPING, ETC. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ALL BUILDING TRADES TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY MISCELLANEOUS ANGLES, CHANNELS, UNISTRUT, ETC., AS MAY BE REQUIRED TO ADEQUATELY SUPPORT THE MECHANICAL PIPING, DUCTWORK, AND EQUIPMENT IN A MANNER APPROVED BY THE ARCHITECT, WHICH WILL NOT OVERLOAD THE BUILDING STRUCTURAL SYSTEM.
- CONTRACTOR SHALL PROVIDE RETURN AIR OR TRANSFER AIR OPENINGS IN FULL HEIGHT WALLS SIZED AT 350 FPM UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE DRAWINGS TO CREATE AND/OR MAINTAIN A RETURN AIR PATH AS REQUIRED. FIRE DAMPERS AND/OR SMOKE DAMPERS SHALL BE PROVIDED IN SUCH OPENINGS WHERE REQUIRED BY NOTE "J".
- SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS AND FITTING CONNECTIONS ON ALL DUCT SYSTEMS.
- MECHANICAL ITEMS SUCH AS ROOF DRAINS, FLOOR DRAINS, PLUMBING FIXTURES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS BUT NOT SHOWN ON THE MECHANICAL DRAWINGS SHALL BE INCLUDED IN THE PROJECT. THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR INCLUSION IN ADDENDUM.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
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SHEET TITLE

MECHANICAL LEGEND

SHEET NUMBER

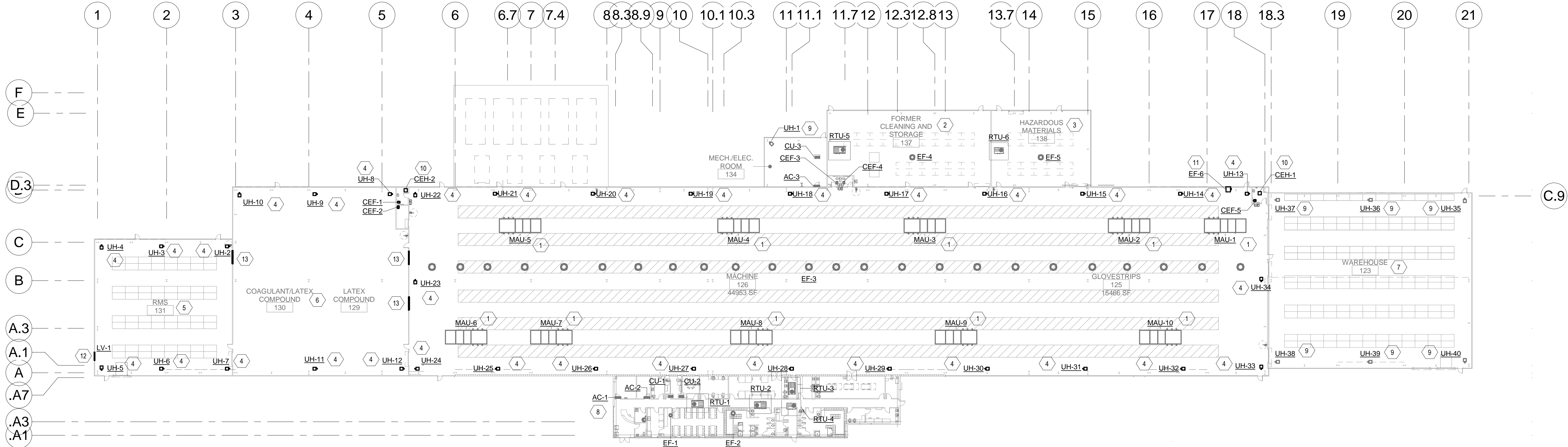
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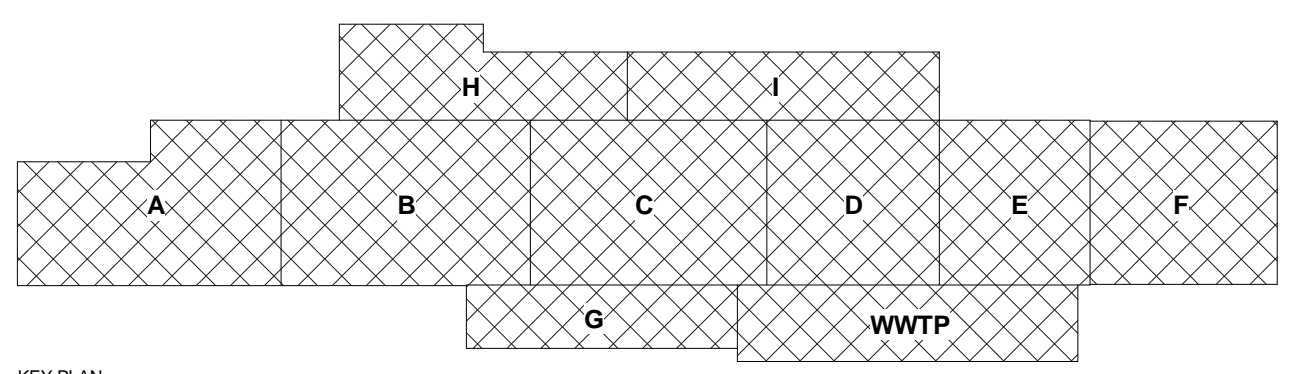
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Bridgers & Paxton Project No. 8286

E
O
C
B
A



(A1) HVAC FIRST FLOOR PLAN
1/32" = 1'-0"




GENERAL NOTES

- A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
- B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

SHEET KEYNOTES

- PHASE 3: MAKE-UP AIR UNIT ON ROOF. EVAPORATIVE COOLING SECTION. FILTER SECTION NATURAL GAS HEAT. SET UNIT ON 14" ROOF CURB.
- PHASE 3: FORMER CLEANING AND MAINTENANCE ARE SHALL HAVE BOTH GENERAL EXHAUST AND EXHAUST FOR CANOPY HOODS OVER ACID TANKS.
- PHASE 3: THE HAZARDOUS MATERIAL STORAGE AREA SHALL HAVE GENERAL EXHAUST AS LOCAL EXHAUST FOR CHEMICAL CABINETS.
- PHASE 2: UNIT HEATERS SHALL BE SUSPENDED FROM STRUCTURE 10'-0" AFF.
- PHASE 3: HVAC SERVING THE RAW MATERIAL STORAGE AREA SERVED BY MAKE-UP AIR UNIT LOCATED ABOVE. REFER TO SHEET MH102.
- PHASE 3: HVAC SERVING THE LATEX AND COAGULANT TO BE SERVED BY MAKE-UP AIR UNIT LOCATED ABOVE. REFER TO SHEET MH102.
- PHASE 3: THE WAREHOUSE AREA TO BE SERVED BY MAKE-UP AIR UNIT LOCATED ABOVE. REFER TO SHEET MH106.
- PHASE 3: HVAC SERVING THE ADMINISTRATION AREA SHALL BE PACKAGED HVAC ROOFTOP GAS HEAT DX COOLING UNITS.
- PHASE 3: UNIT HEATERS SHALL BE SUSPENDED FROM STRUCTURE 10'-0" AFF.
- PHASE 2: CEILING ELECTRIC HEATER SUSPENDED FROM STRUCTURE. PROVIDE LOW VOLTAGE CONTROLS AND THERMOSTAT.
- PHASE 2: PROPELLER FAN WITH WALL HOUSING 12'-0" AFF. INTERLOCK FAN WITH MOTORIZED DAMPER ON LOUVER L-1.
- PHASE 2 : 60"x48" RUSKIN ELF375DX LOUVER WITH 120V MOTORIZED DAMPER 12'-0" AFF. INTERLOCK DAMPER WITH EF-6.
- PHASE 2: 96"x36" TRANSFER AIR OPENING WITH RUSKIN ELF375DX LOUVER ON EACH SIDE OF OPENING.

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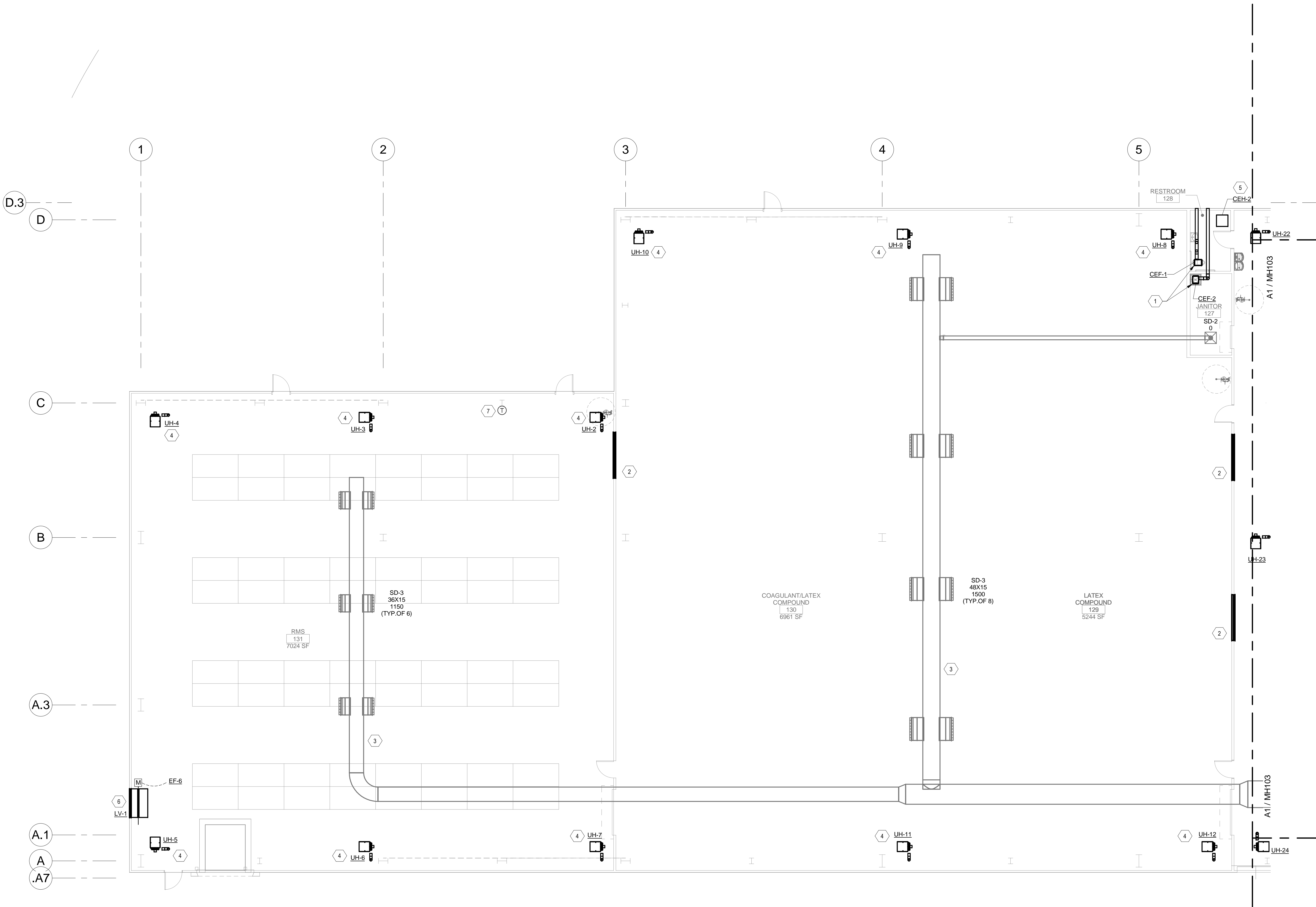
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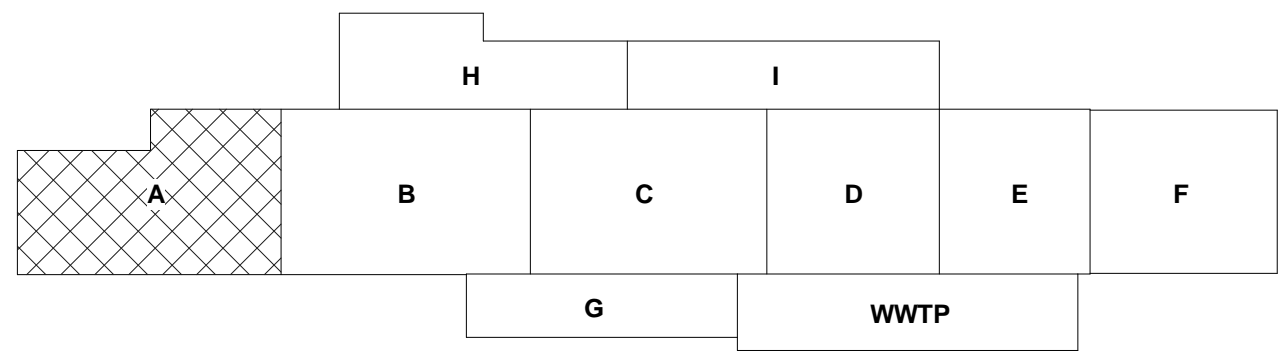
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HVAC FLOOR PLAN
SHEET NUMBER
MH101
Sequence of

3/25/2022 9:05:50 AM
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BIM 360/Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt

A
B
C
D
E



(A1) HVAC FIRST FLOOR PLAN - AREA A COMPOUND
1/8" = 1'-0"



GENERAL NOTES

- A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

SHEET KEYNOTES

1. PHASE 2: CEILING EXHAUST FAN SUSPENDED FROM STRUCTURE.
2. PHASE 2: 96"x36" TRANSFER AIR OPENING WITH RUSKIN ELF375DX LOUVER ON EACH SIDE OF OPENING.
3. PHASE 3: SUPPLY AIR DUCT SUSPENDED AS HIGH AS POSSIBLE FROM STRUCTURE. REFER TO MH103 FOR CONTINUATION.
4. PHASE 2: UNIT HEATER SUSPENDED FROM STRUCTURE AT 10'-0" AFF.
5. PHASE 2: CEILING ELECTRIC HEATER SUSPENDED FROM STRUCTURE. PROVIDE LOW VOLTAGE CONTROLS AND THERMOSTAT.
6. PHASE 2 : 60"x48" RUSKIN ELF375DX LOUVER WITH 120V MOTORIZED DAMPER 12'-0" AFF. INTERLOCK DAMPER WITH EF-6.
7. FMS ROOM SENSOR.

CHURCH ROCK PHASE II FACTORY
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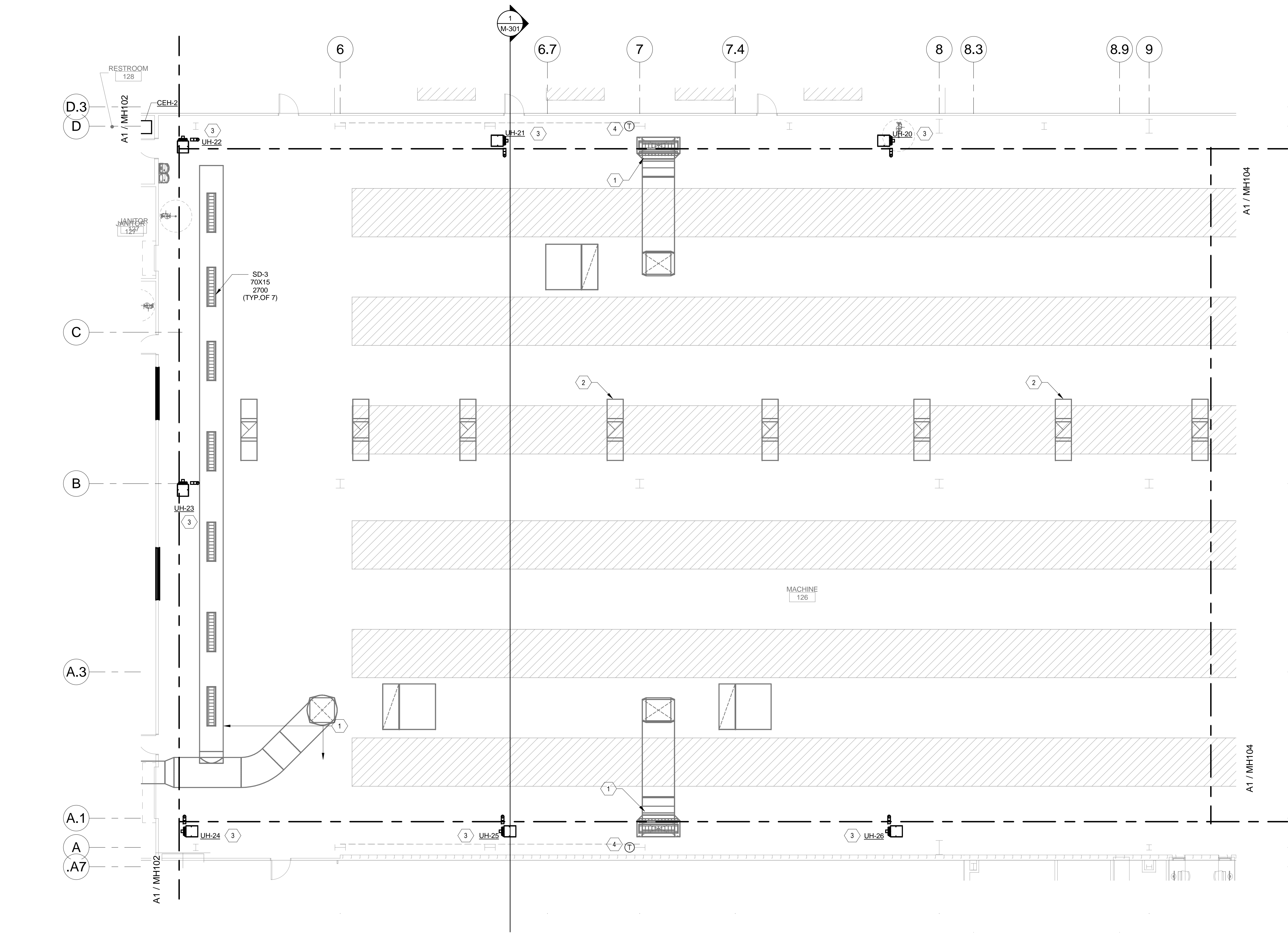
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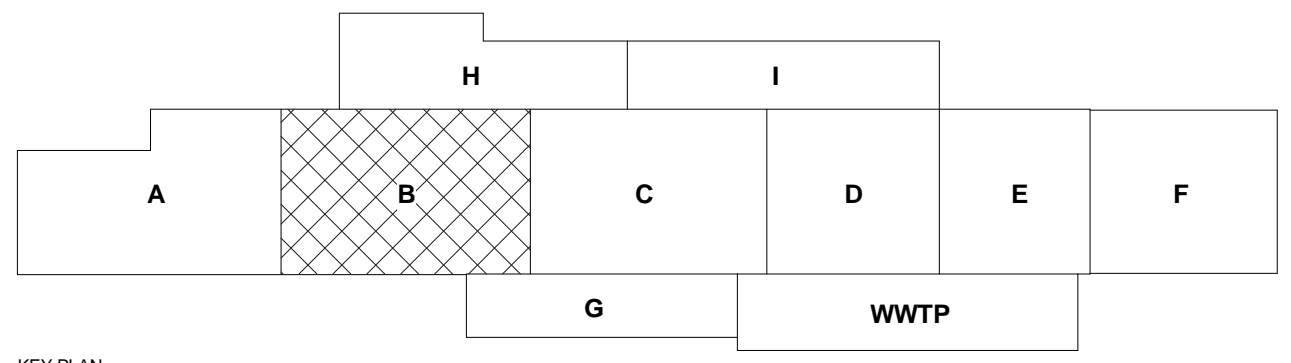
SHEET TITLE
HVAC FLOOR PLAN - AREA A COMP.

SHEET NUMBER
MH102
Sequence of

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Bridgers & Paxton Project No. 8286



(A1) HVAC FIRST FLOOR PLAN - AREA B FACTORY
1/8" = 1'-0"




GENERAL NOTES

- A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

SHEET KEYNOTES

1. PHASE 3: SUPPLY AIR DUCTS FROM MAKE-UP AIR UNIT ABOVE. DRUM LOUVER DIFFUSERS AND BRANCH DUCT WORK CONVEY THE CONDITIONED AIR TO THE FLOOR. REFER TO SHEET M-301 FOR MORE INFORMATION.
2. PHASE 3: EXHAUST AIR DUCT WORK UP TO EXHAUST FAN ABOVE.
3. PHASE 2: UNIT HEATER SUSPENDED FROM STRUCTURE AT 10'-0" AFF.
4. FMS ROOM SENSOR.

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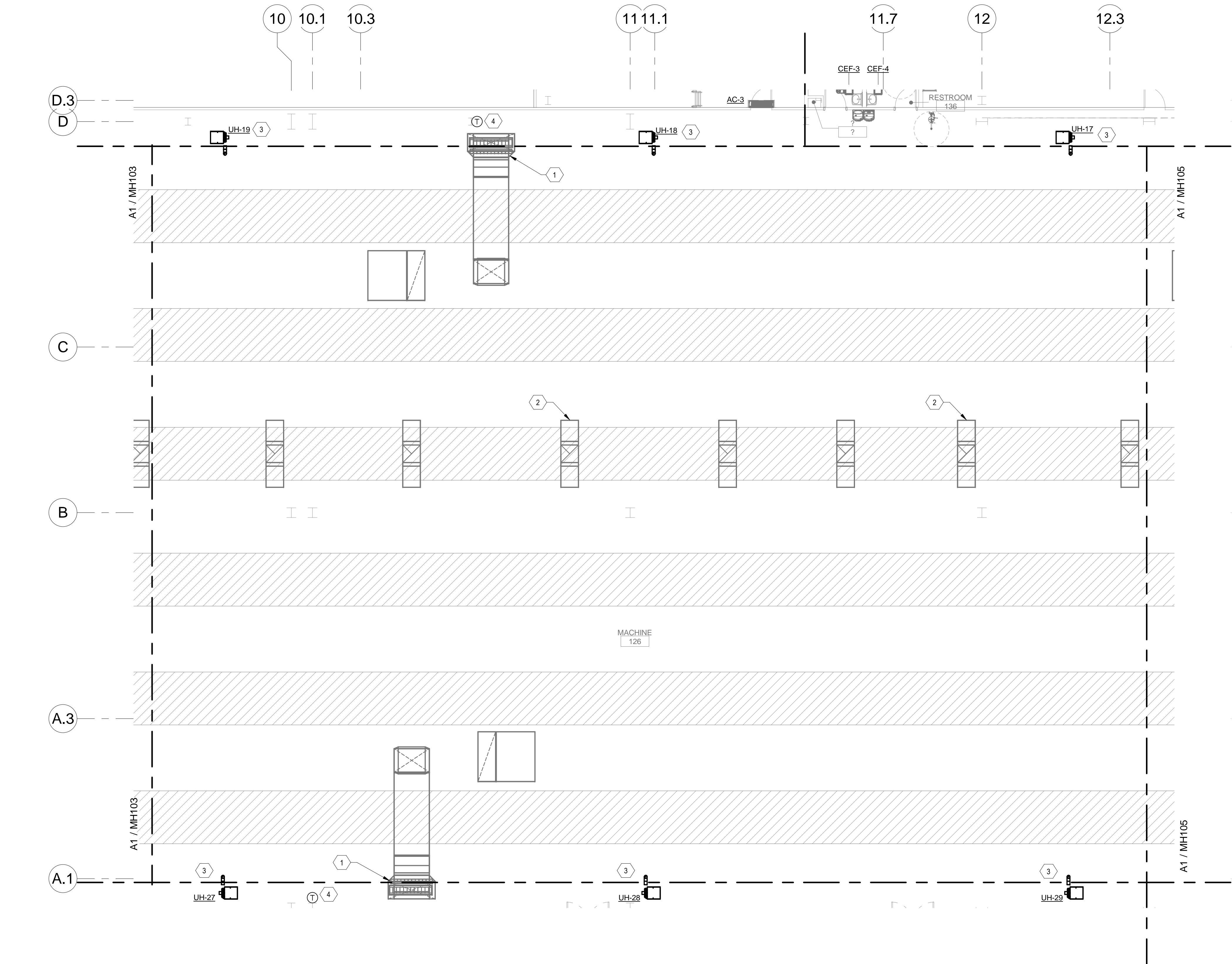
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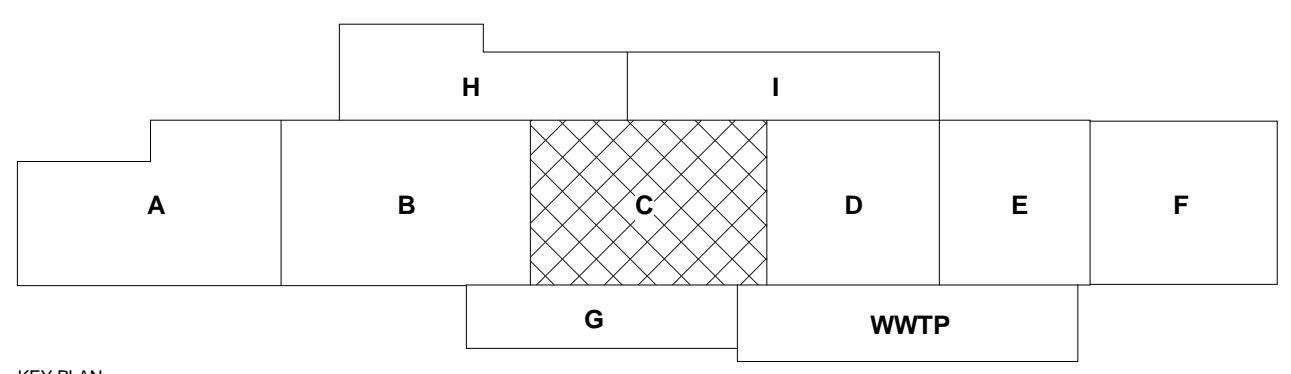
SHEET TITLE
HVAC FLOOR PLAN - AREA B FACTORY

SHEET NUMBER
MH103
Sequence of

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A1 HVAC FIRST FLOOR PLAN - AREA C FACTORY
1/8" = 1'-0"



- GENERAL NOTES**

A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.
- SHEET KEYNOTES**
 1. PHASE 3: SUPPLY AIR DUCTS FROM MAKE-UP AIR UNIT ABOVE. DRUM LOUVER DIFFUSERS AND BRANCH DUCT WORK CONVEY THE CONDITIONED AIR TO THE FLOOR. REFER TO SHEET M-301 FOR MORE INFORMATION.
 2. PHASE 3: EXHAUST AIR DUCT WORK UP TO EXHAUST FAN ABOVE.
 3. PHASE 2: UNIT HEATER SUSPENDED FROM STRUCTURE AT 10'-0" AFF.
 4. FMS ROOM SENSOR.

CHURCH ROCK PHASE II FACTORY
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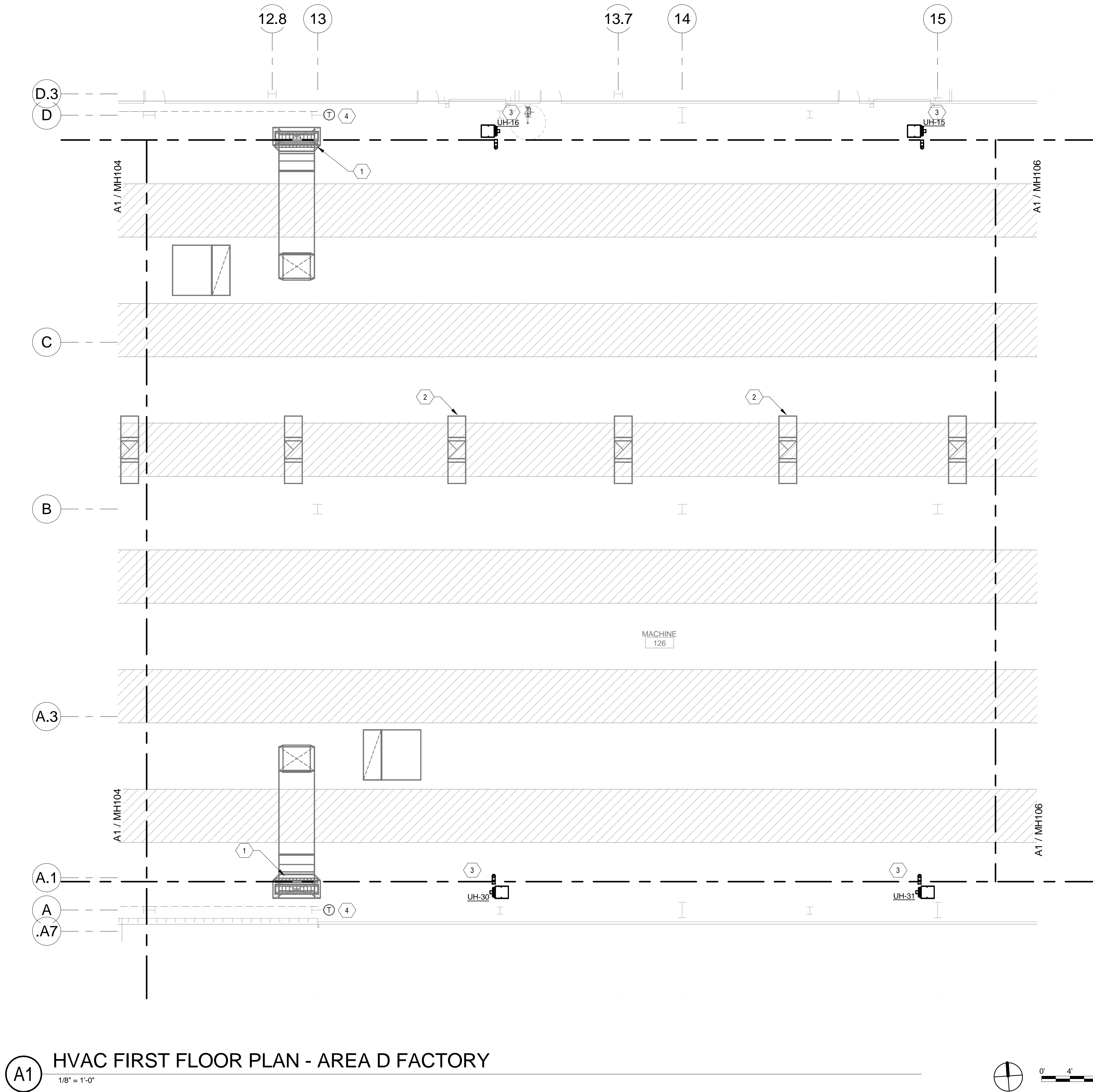
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SHEET TITLE
HVAC FLOOR PLAN - AREA C FACTORY

SHEET NUMBER
MH104
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GENERAL NOTES

- A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

SHEET KEYNOTES

1. PHASE 3: SUPPLY AIR DUCTS FROM MAKE-UP AIR UNIT ABOVE. DRUM LOUVER DIFFUSERS AND BRANCH DUCT WORK CONVEY THE CONDITIONED AIR TO THE FLOOR. REFER TO SHEET M-301 FOR MORE INFORMATION.
2. PHASE 3: EXHAUST AIR DUCT WORK UP TO EXHAUST FAN ABOVE.
3. PHASE 2: UNIT HEATER SUSPENDED FROM STRUCTURE AT 10'-0" AFF.
4. FMS ROOM SENSOR.

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SHEET TITLE

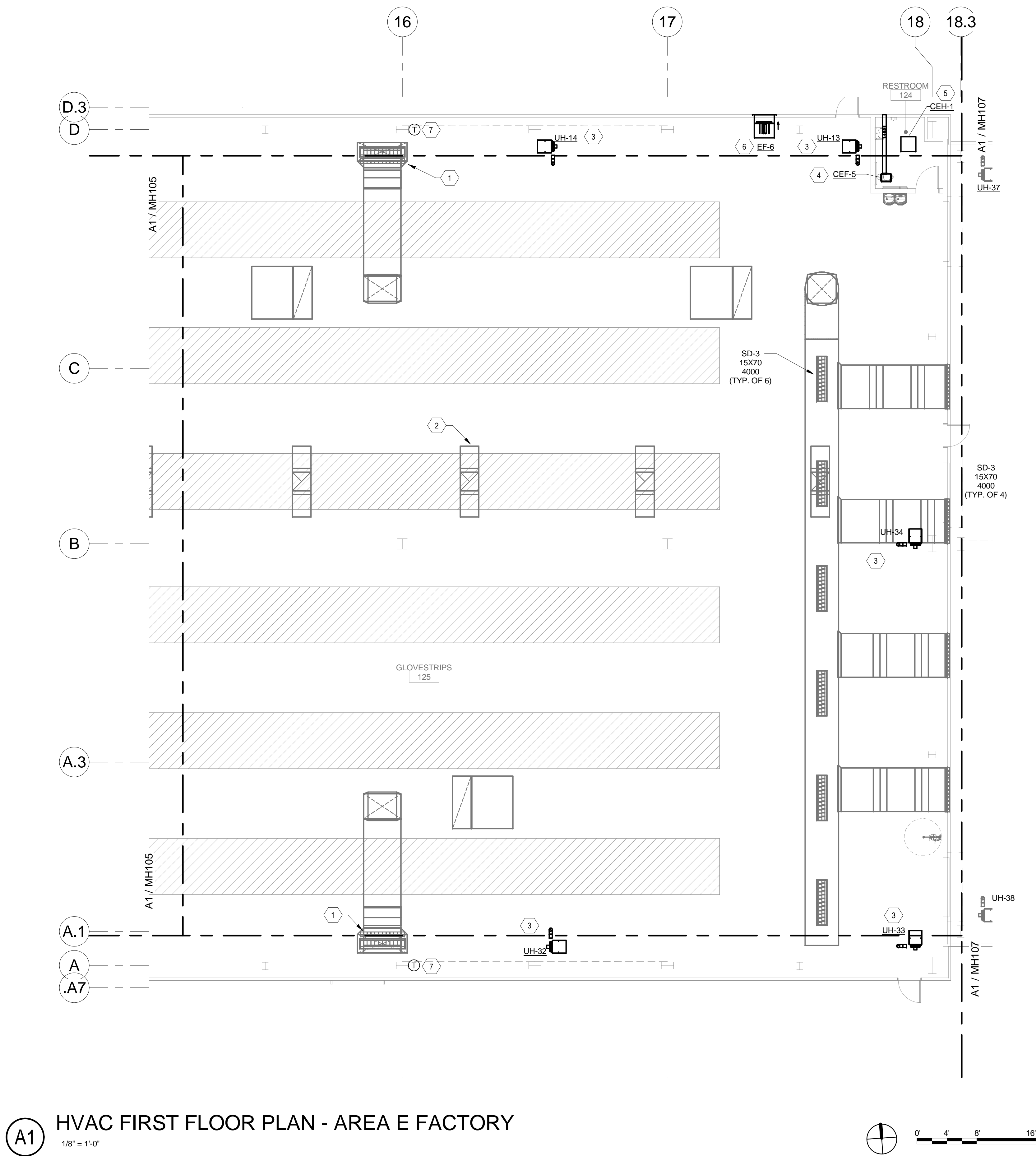
HVAC FLOOR
PLAN - AREA D
FACTORY

SHEET NUMBER

MH105

Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 9:05:58 AM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt



GENERAL NOTES

- A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

SHEET KEYNOTES

- PHASE 3: SUPPLY AIR DUCTS FROM MAKE-UP AIR UNIT ABOVE. DRUM LOUVER DIFFUSERS AND BRANCH DUCT WORK CONVEY THE CONDITIONED AIR TO THE FLOOR. REFER TO SHEET M-301 FOR MORE INFORMATION.
- PHASE 3: EXHAUST AIR DUCT WORK UP TO EXHAUST FAN ABOVE.
- PHASE 2: UNIT HEATER SUSPENDED FROM STRUCTURE AT 10'-0" AFF.
- PHASE 2: CEILING EXHAUST FAN SUSPENDED FROM STRUCTURE.
- PHASE 2: CEILING ELECTRIC HEATER SUSPENDED FROM STRUCTURE. PROVIDE LOW VOLTAGE CONTROLS AND THERMOSTAT.
- PHASE 2: PROPELLER FAN WITH WALL HOUSING 12'-0" AFF. INTERLOCK FAN WITH MOTORIZED DAMPER ON LOUVE L-1.
- FMS ROOM SENSOR.

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SHEET TITLE

HVAC FLOOR PLAN - AREA E FACTORY

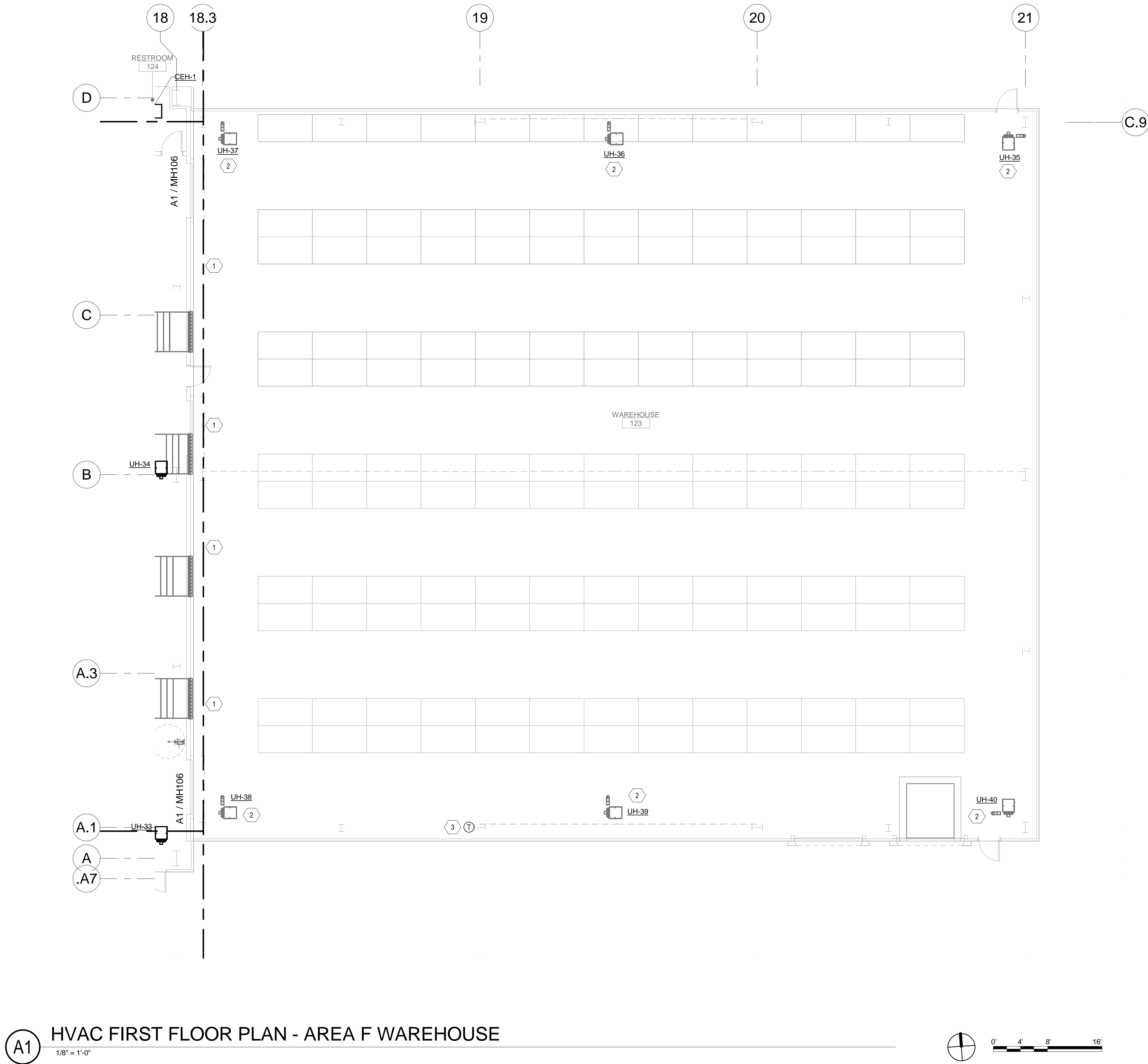
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MH106

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3/25/2022 9:06:00 AM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt
Bridgers & Paxton Project No. 8286



GENERAL NOTES

- A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

SHEET KEYNOTES

1. PHASE 3: WAREHOUSE AREA TO BE SERVED BE SERVED BY MAKE-UP AIR UNIT OVER AREA E.
2. PHASE 3: UNIT HEATER SUSPENDED FROM STRUCTURE.
3. FMS ROOM SENSOR.

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	FEBRUARY 16, 2022	

PROJECT NUMBER: 2020.017
DRAWING FILE: 8286_MEP_Church Rock Factory
DRAWN BY: MTO
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SHEET TITLE

HVAC FLOOR
PLAN - AREA F
WAREHOUSE

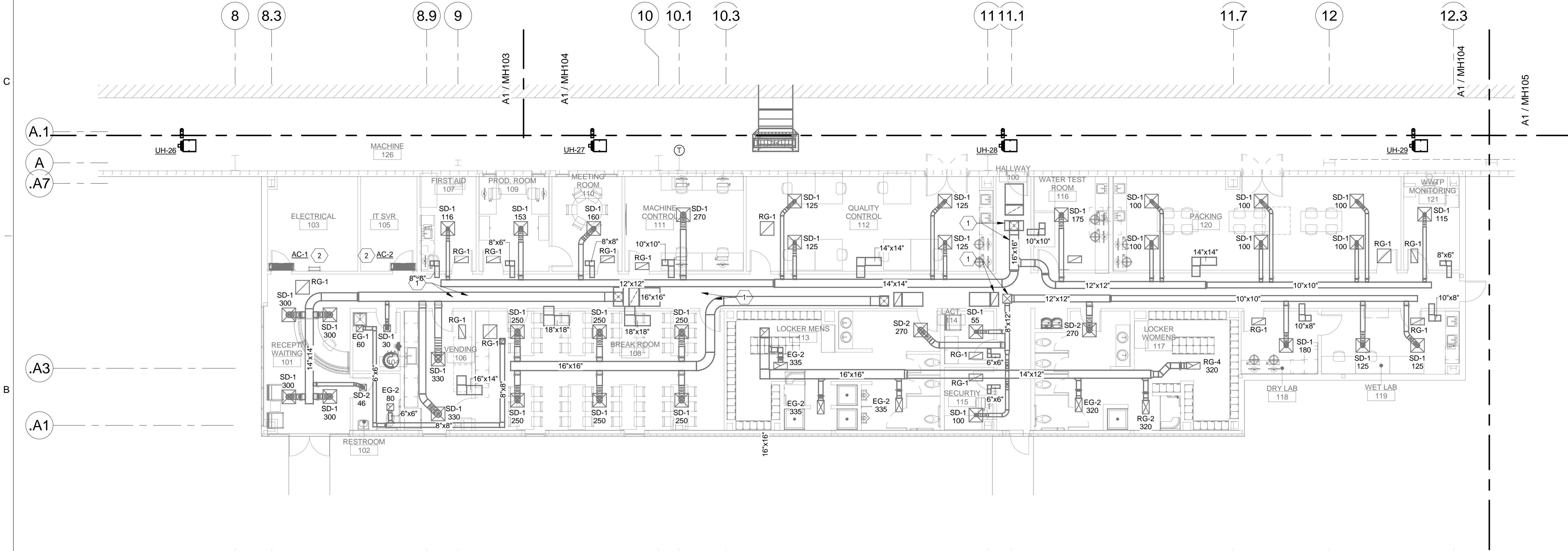
SHEET NUMBER

MH107

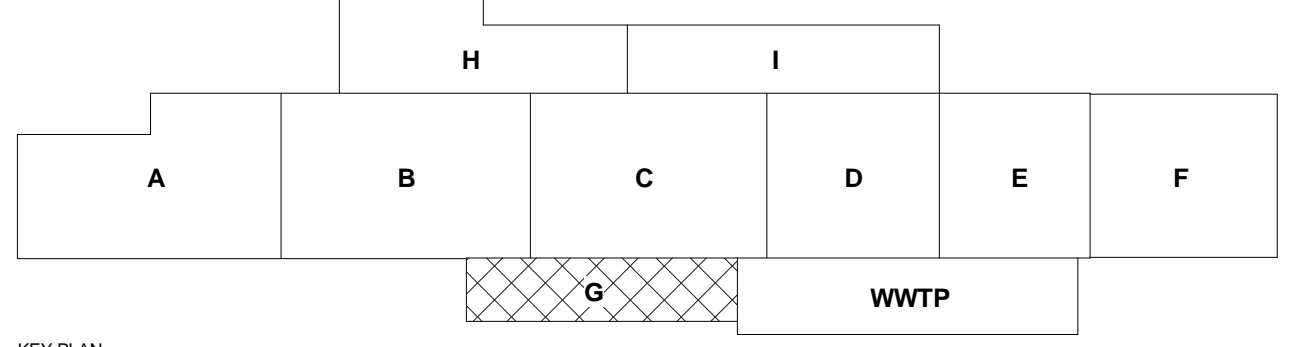
Sequence of

3/25/2022 9:06:03 AM
Bridgers & Paxton Project No. 8286
BIM 360://Church Rock Phase II Factory/8286_MEP_Church Rock Factory.rvt

A
B
C
O
E



A1 HVAC FIRST FLOOR PLAN - AREA G ADMINISTRATION
1/8" = 1'-0"



GENERAL NOTES

- A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

SHEET KEYNOTES

1. PHASE 3: ADMINISTRATION AREA TO BE SERVED BY PACKAGED ROOFTOP EQUIPMENT WITH GAS HEAT AND DX COOLING.
2. PHASE 3: WALL MOUNTED SPLIT SYSTEM AC UNIT. CONDENSING UNIT LOCATED AT GRADE OR ON ROOF.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC

IDIA
8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

CONSULTANT INFO & LOGO

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SHEET TITLE

HVAC FLOOR PLAN - AREA G ADMIN

SHEET NUMBER

MH108

Sequence of



A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

1. PHASE 3: FORMER CLEANING AND STORAGE AREA TO BE SERVED BY MAKE-UP AIR UNIT. GENERAL EXHAUST AND CANOPY EXHAUST HOODS ARE ANTICIPATED TO SUPPORT THE FUNCTIONS IN THIS AREA.
2. PHASE 3: HAZARDOUS MATERIAL STORAGE AREA TO BE SERVED BY MAKE-UP AIR UNIT. GENERAL EXHAUST AND CANOPY EXHAUST HOODS ARE ANTICIPATED TO SUPPORT THE FUNCTIONS IN THIS AREA.
3. PHASE 3: CEILING EXHAUST FAN SUSPENDED FROM STRUCTURE.

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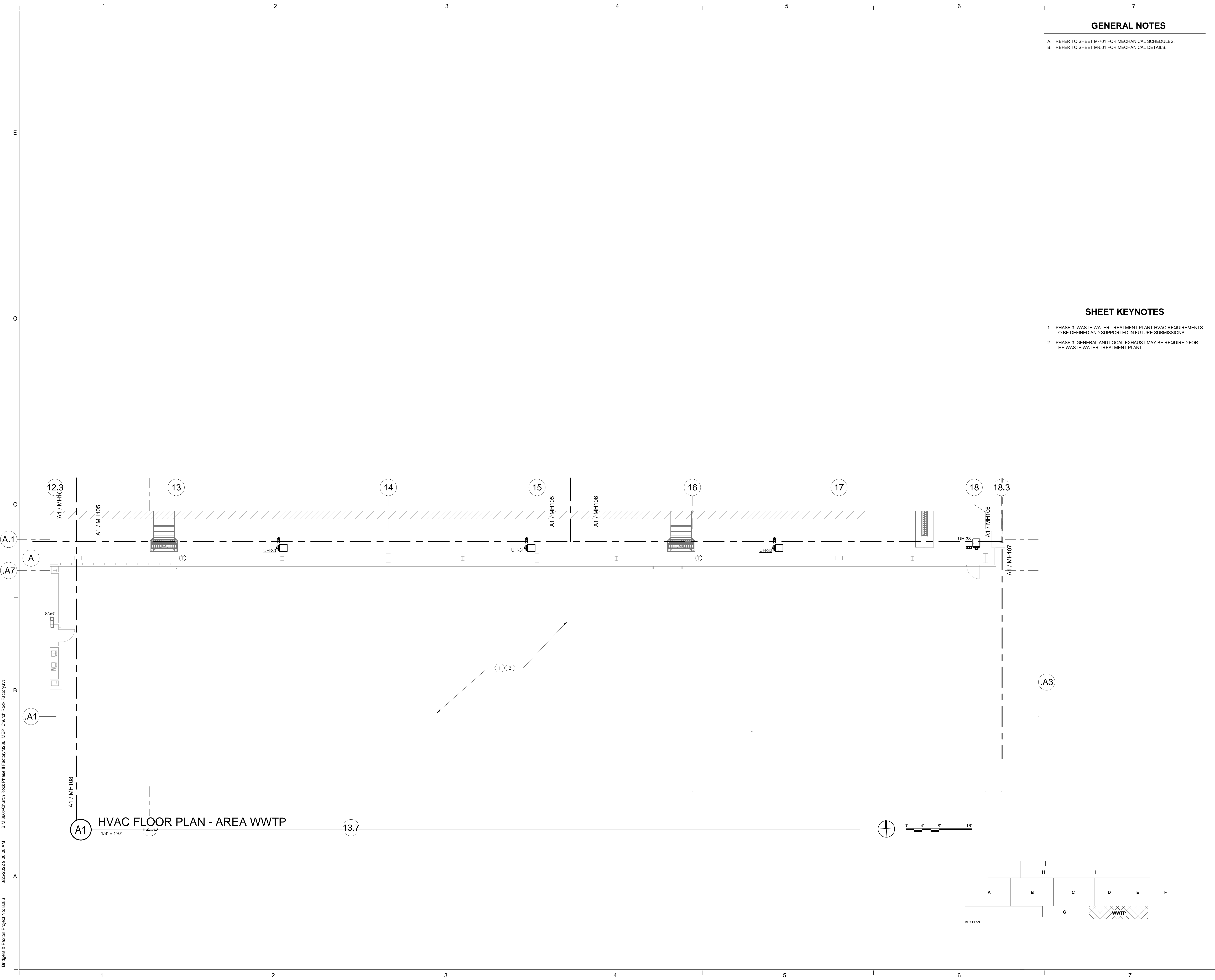
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HVAC FLOOR PLAN - AREA I MECH

MH110

Sequence of



GENERAL NOTES

- A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

SHEET KEYNOTES

1. PHASE 3: WASTE WATER TREATMENT PLANT HVAC REQUIREMENTS TO BE DEFINED AND SUPPORTED IN FUTURE SUBMISSIONS.
2. PHASE 3: GENERAL AND LOCAL EXHAUST MAY BE REQUIRED FOR THE WASTE WATER TREATMENT PLANT.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
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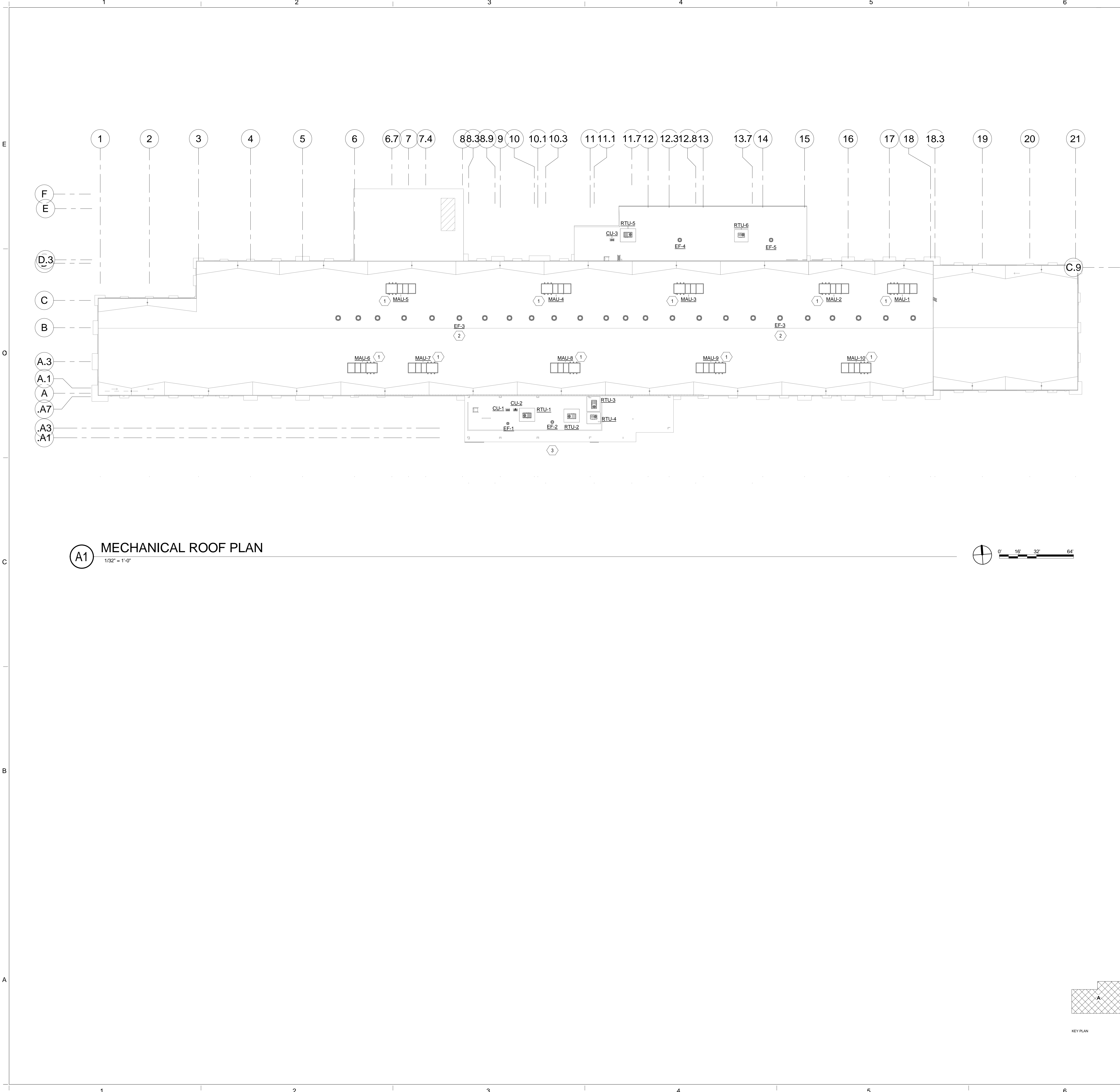
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DRAWING FILE: 8286_MEP_Church Rock Factory
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SHEET TITLE
HVAC FLOOR PLAN - AREA WWTP

SHEET NUMBER

MH111
Sequence of

Bridgers & Paxton Project No. 8286 3/25/2022 9:06:11 AM B:\360\Church Rock Phase II Factory\8286_MEP_Church Rock Factory.rvt



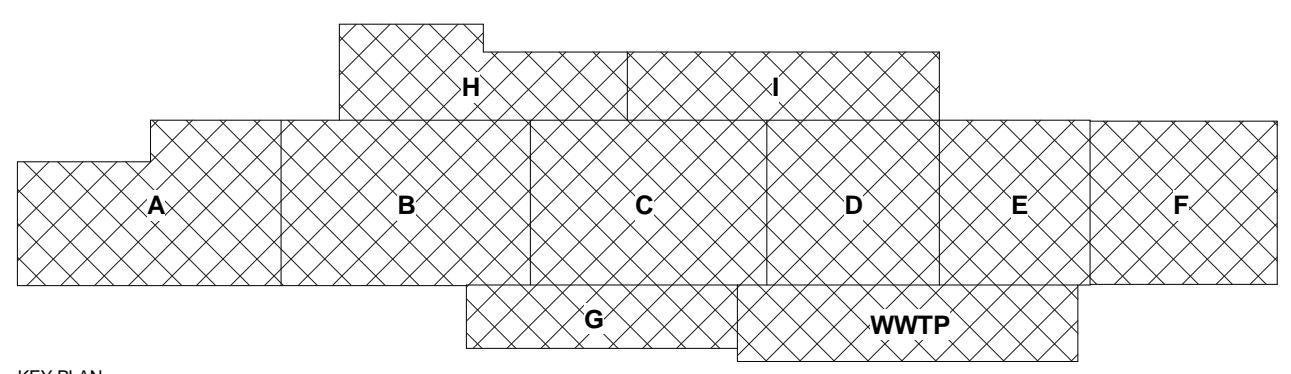
(A1) MECHANICAL ROOF PLAN
1/32" = 1'-0"

GENERAL NOTES

- A. REFER TO SHEET M-701 FOR MECHANICAL SCHEDULES.
- B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

SHEET KEYNOTES

- 1. PHASE 3: MAKE-UP AIR UNITS SERVING THE MACHINE ROOM. THIS EQUIPMENT CAN ALSO BE LOCATED ON ROOF.
- 2. PHASE 3: ROOFTOP FAN ARRAY LOCATED NEAR THE RIDGELINE OF THE BUILDING. THESE FANS SHALL TAKE HEAT FROM THE MACHINE LINES AS WELL AS HEAT FROM THE SPACE.
- 3. PHASE 3: THE ADMINISTRATION AREA SHALL BE SERVED BY PACKAGED ROOFTOP EQUIPMENT.



CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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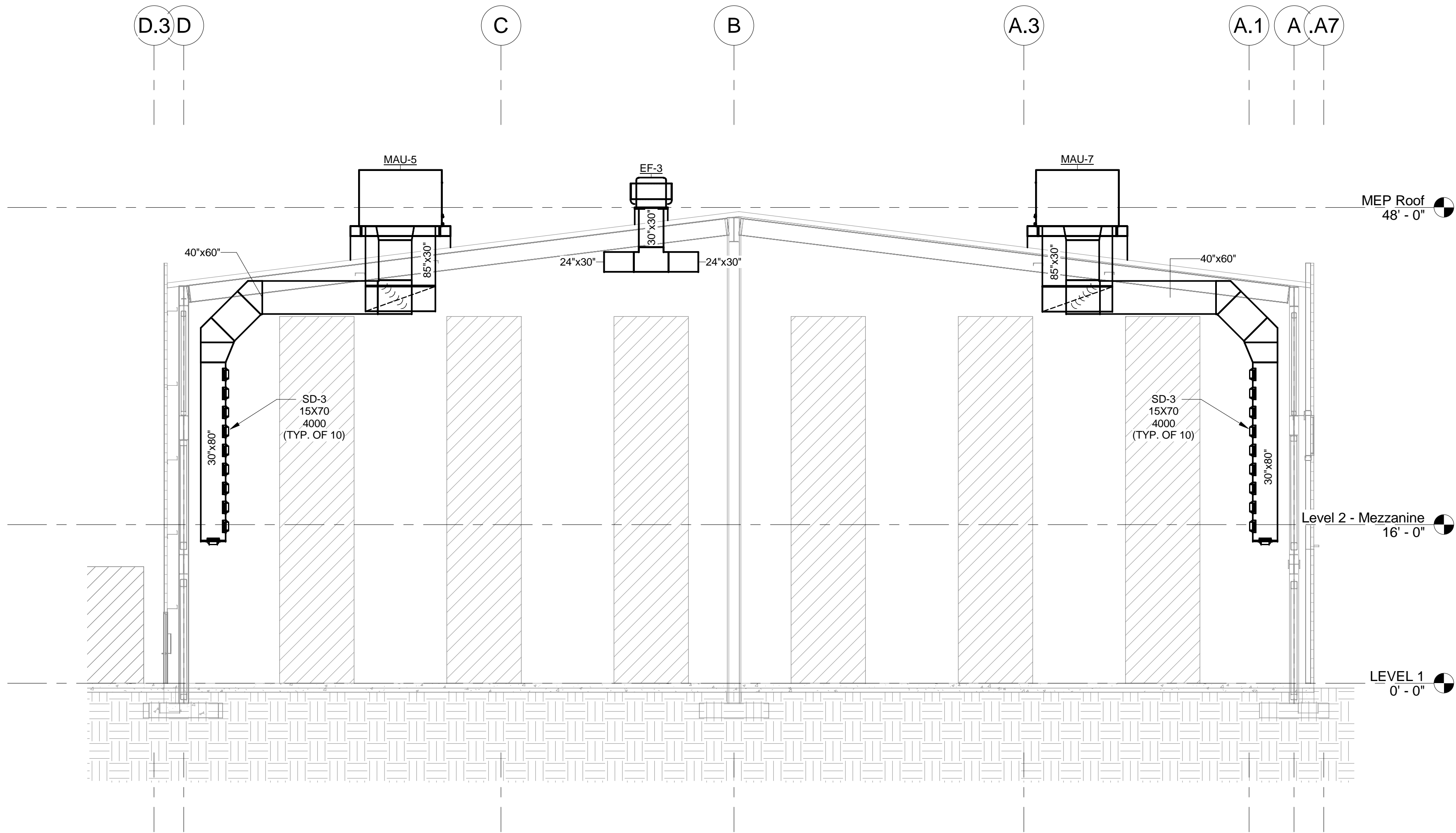
PROJECT NUMBER: 2020.017
DRAWING FILE: 8286_MEP_Church Rock Factory
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SHEET TITLE
MECHANICAL ROOF PLAN

SHEET NUMBER
MH120
Sequence of

3/25/2022 9:05:34 AM
Bridgers & Paxton Project No. 8286
BIM 360/Church Rock Phase II Factory/8286_MEP_Church Rock Factory.rvt

1 MECH SECTION
SCALE: NOT TO SCALE



CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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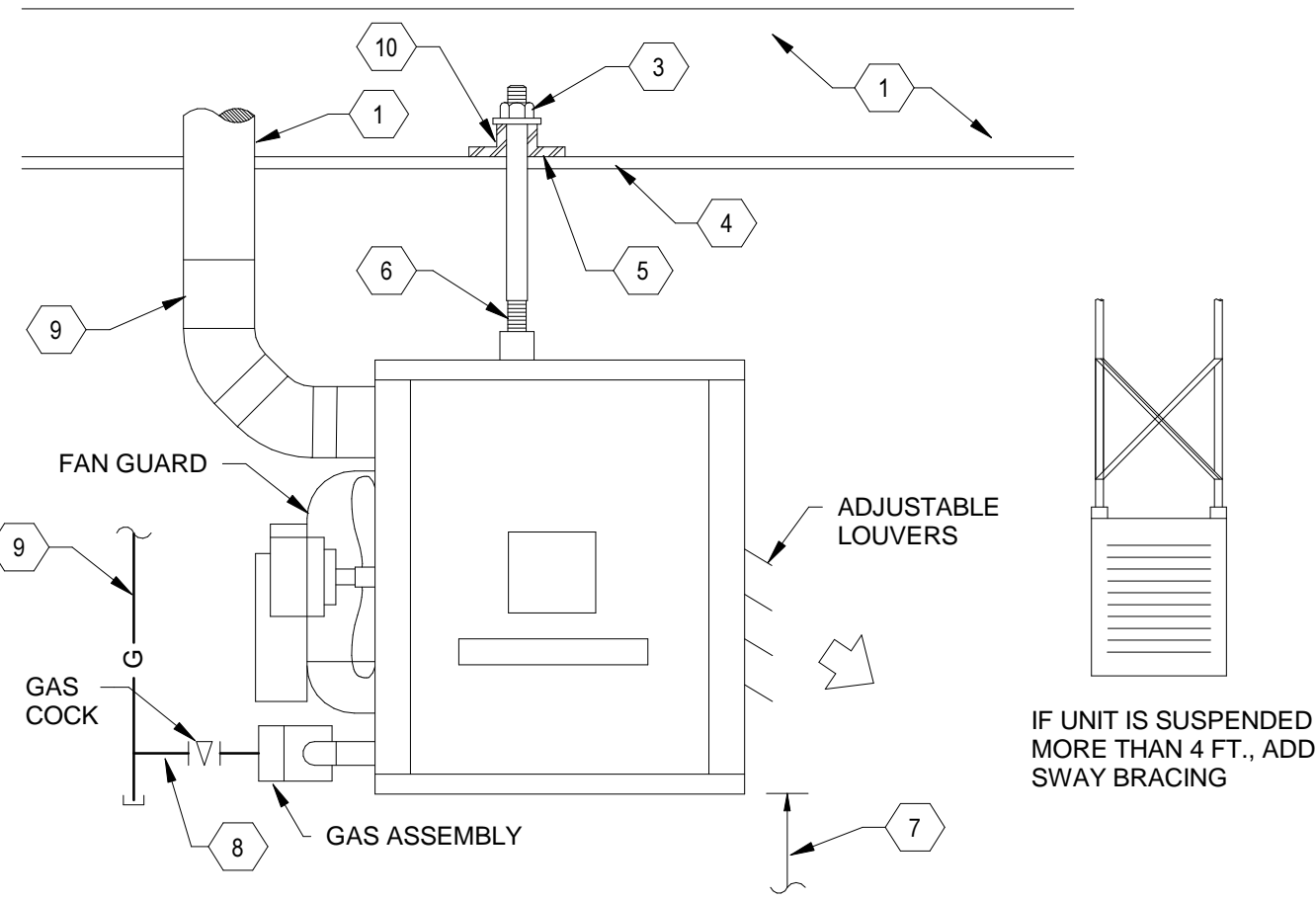
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SHEET TITLE
MECHANICAL SECTIONS

SHEET NUMBER
M-301
Sequence of



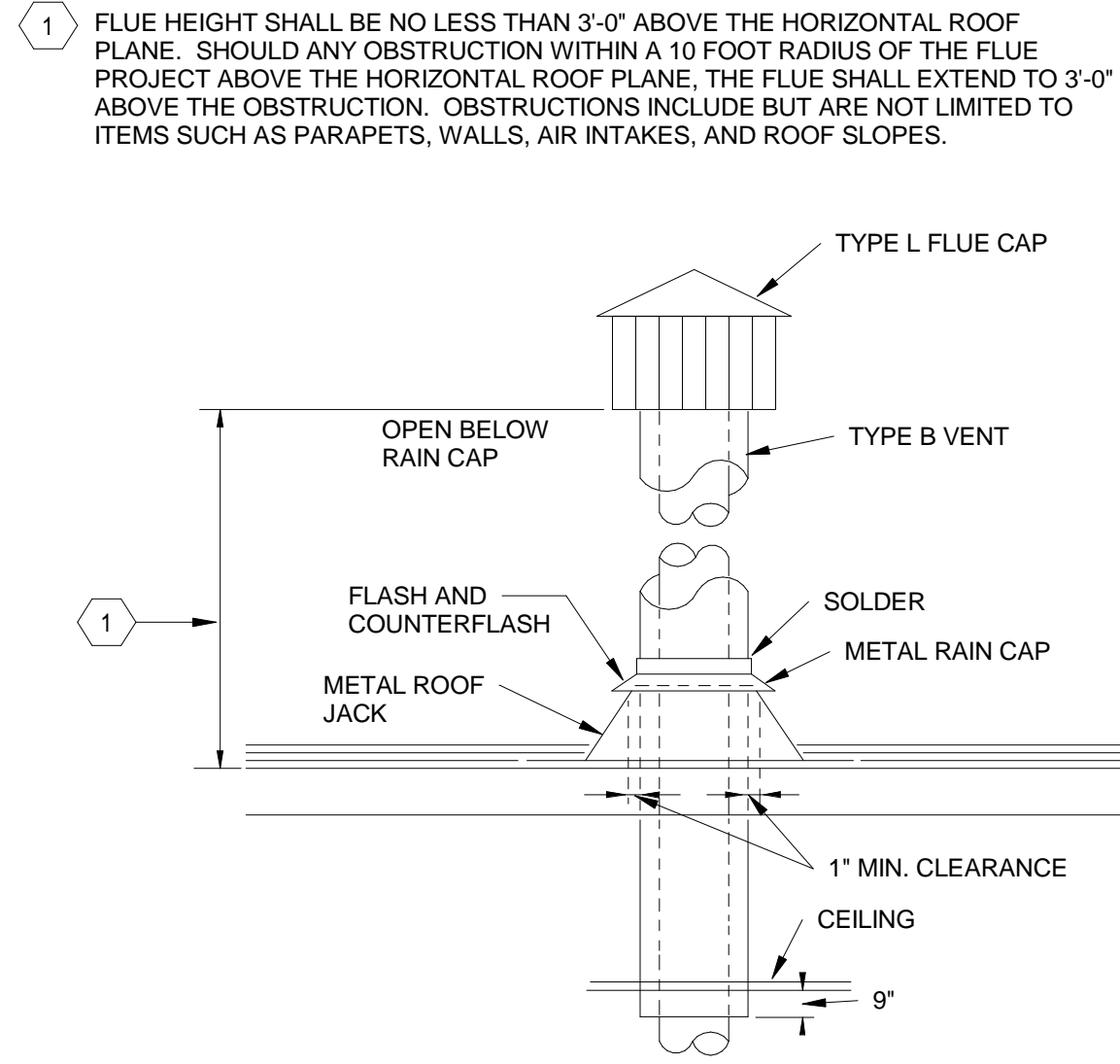
KEYNOTES

- FLUE THRU ROOF SEE DETAIL
- STRUCTURAL SPACE
- PLATE OR LARGE WASHER ON TOP OF ANGLES, WITH NUT OR NIPPLE ABOVE
- WHERE FRAMING VARIES, ATTACH IN AN APPROVED METHOD ACCEPTABLE TO STRUCTURAL ENGINEER
- WELD ANGLES TOGETHER
- THREADED ROD OR PIPE PER MANUFACTURER'S RECOMMENDATIONS
- SEE PLAN FOR MOUNTING HEIGHT, MINIMUM HEIGHT 7'-6"
- PROVIDE FLEXIBLE CONNECTION ON GAS LINE IF HEATER IS SUSPENDED OVER 4 FEET
- SEE PLAN FOR SIZES
- DOUBLE ANGLE, 2" MINIMUM SIZE, OR LARGER FOR LONGER SPAN. SIZE AS DIRECTED BY STRUCTURAL ENGINEER

GENERAL NOTE:
ALL SUSPENDED EQUIPMENT SHALL BE SECURED TO THE STRUCTURE IN A MANNER APPROVED BY THE STRUCTURAL ENGINEER.

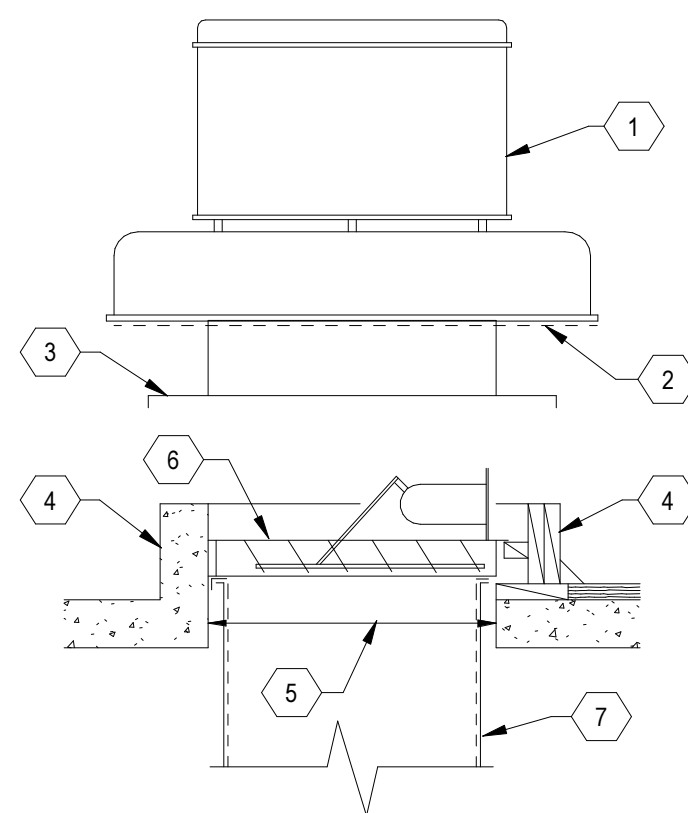
D1 GAS UNIT HEATER DETAIL

SCALE: NOT TO SCALE



E3 FLUE THRU ROOF DETAIL

SCALE: NOT TO SCALE

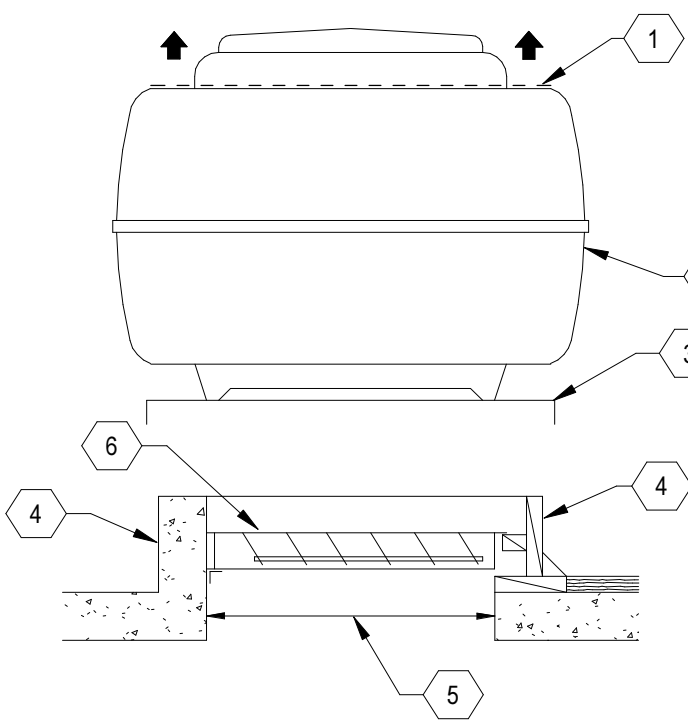


KEYNOTES

- POWER ROOF EXHAUSTER
- BIRDSCREEN
- INTEGRAL CURB CAP SECURE AND CAULK TO CURB
- FACTORY CURB SECURELY ANCHORED TO ROOF OR AS SHOWN ON ARCHITECTURAL DRAWINGS. FLASH AND COUNTERFLASH
- ROOF OPENING - MIN. 1" LARGER THAN DUCT SIZE AS SHOWN ON PLANS
- MOTORIZED OR BAROMETRIC BACKDRAFT DAMPER AS CALLED FOR ON EQUIPMENT SCHEDULE
- ACOUSTICALLY LINED DUCT UNLESS EXHAUSTING MOIST AIR

C3 POWER ROOF EXHAUSTER DETAIL

SCALE: NOT TO SCALE

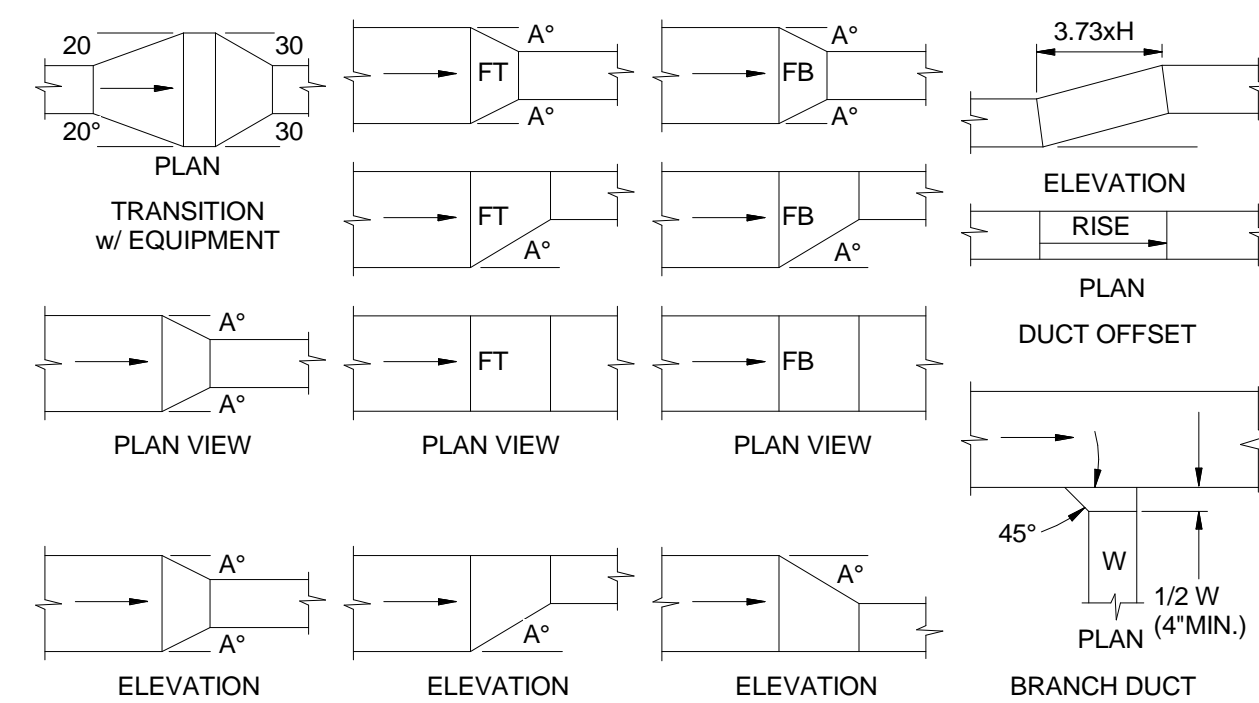


KEYNOTES

- REMOVABLE BIRDSCREEN
- TOP DISCHARGE POWER ROOF EXHAUSTER
- INTEGRAL CURB CAP SECURE AND CAULK TO CURB
- FACTORY CURB SECURELY ANCHORED TO ROOF OR AS SHOWN ON ARCHITECTURAL DRAWINGS. FLASH AND COUNTERFLASH
- ROOF OPENING - MIN. 1" LARGER THAN DUCT SIZE AS SHOWN ON PLANS
- BACKDRAFT DAMPER

B3 UP-BLAST POWER ROOF EXHAUSTER DETAIL

SCALE: NOT TO SCALE



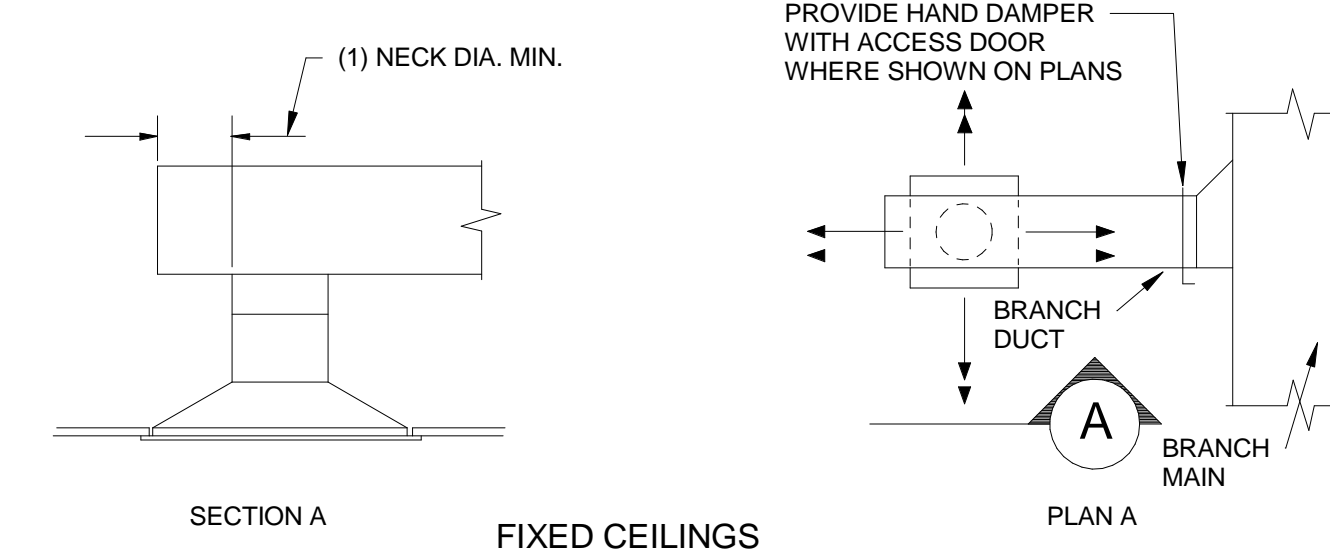
- NOTE:
 - ANGLE A=30 MAXIMUM WHEN AIR FLOWS IN DIRECTION OF ARROS. (SUPPLY AIR)
 - ANGLE A=15 WHEN AIR FLOWS IN OPPOSITE DIRECTION OF ARROS. (R.A. OR EXHAUST)

A1 SOUND ELBOW DETAIL FOR TRANSFER OPENINGS

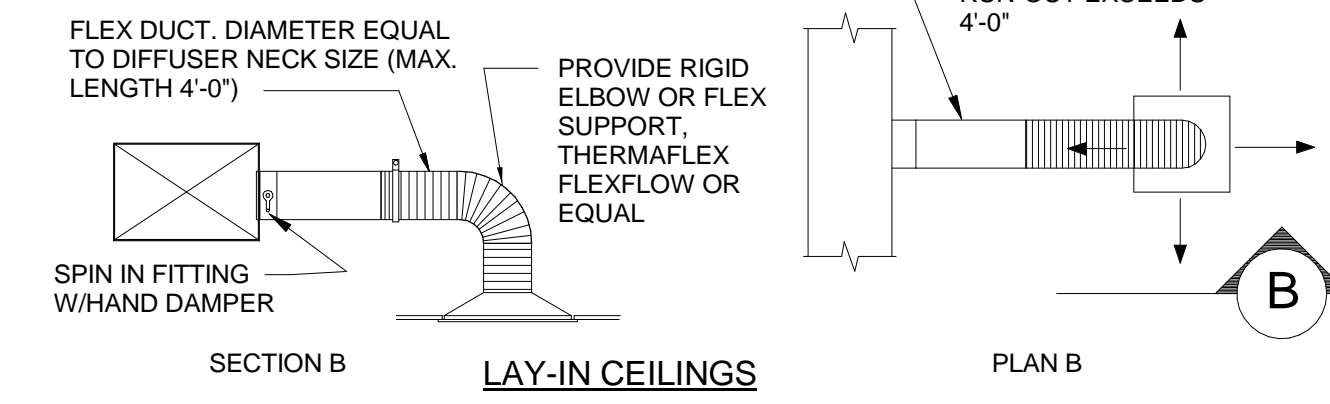
SCALE: NOT TO SCALE

A3 LOW PRESSURE DUCT FITTING DETAIL

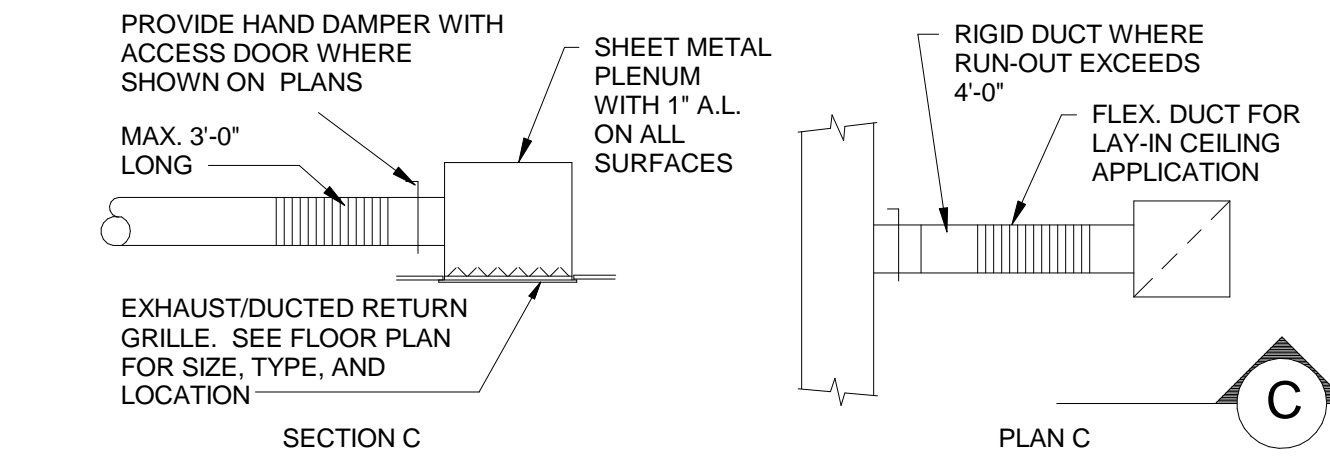
SCALE: NOT TO SCALE



FIXED CEILINGS



LAY-IN CEILINGS



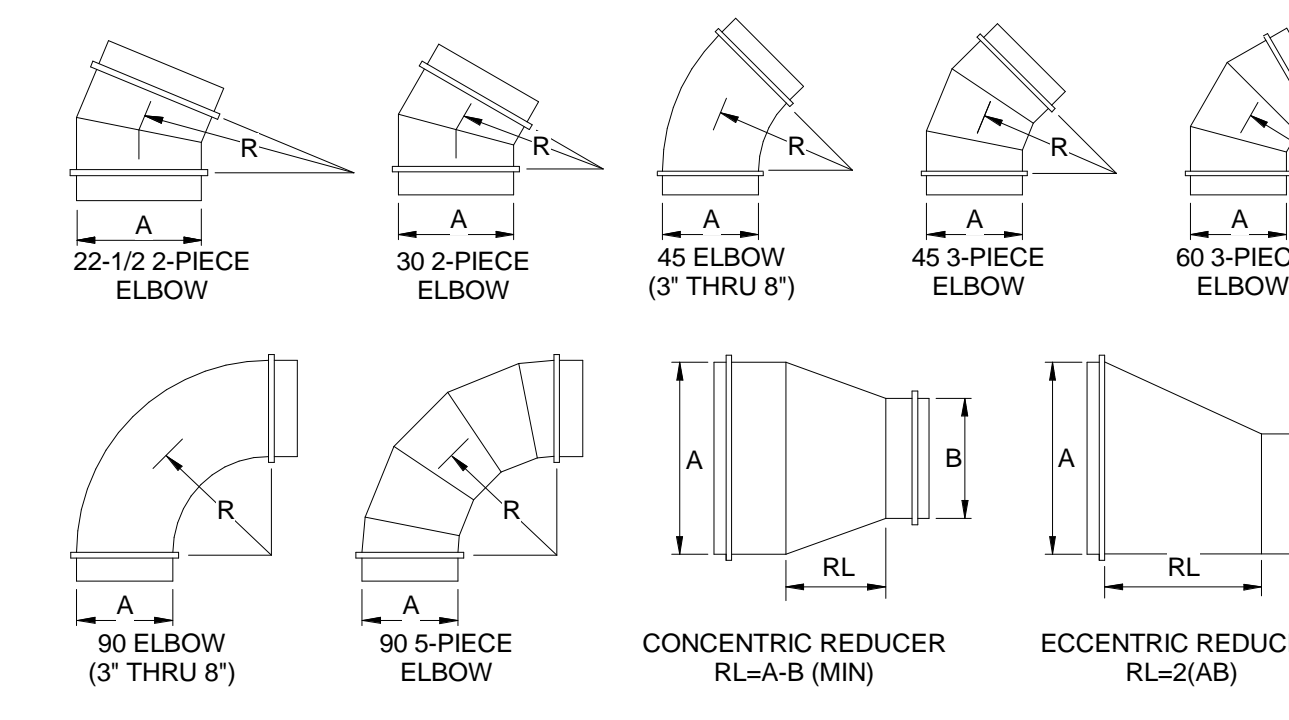
RETURN/EXHAUST REGISTER FOR LAY-IN AND FIXED CEILINGS

NOTE:
PROVIDE BALANCING DAMPER IN SUPPLY AND EXHAUST DUCTS REGARDLESS WHETHER SHOWN ON DRAWINGS

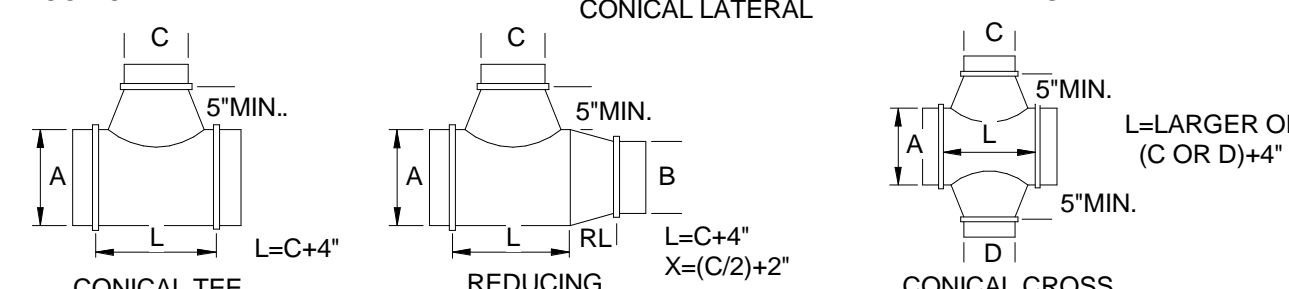
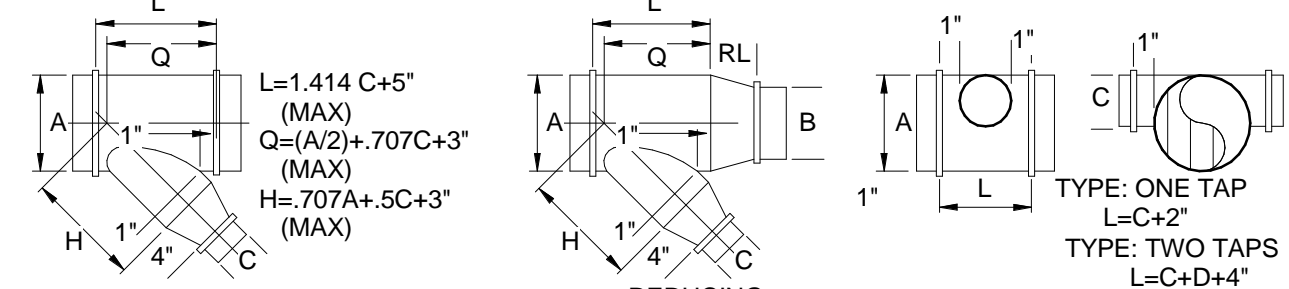
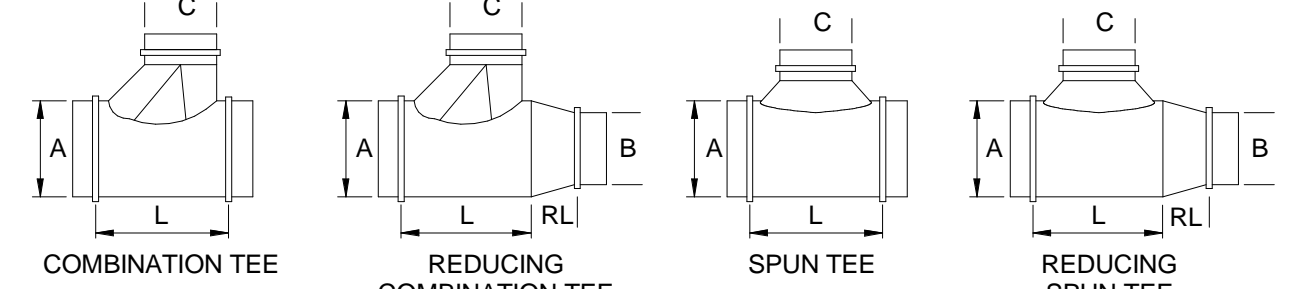
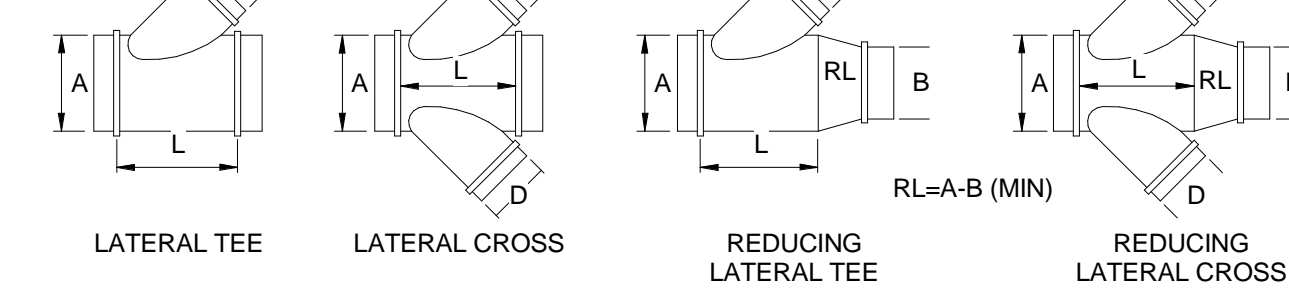
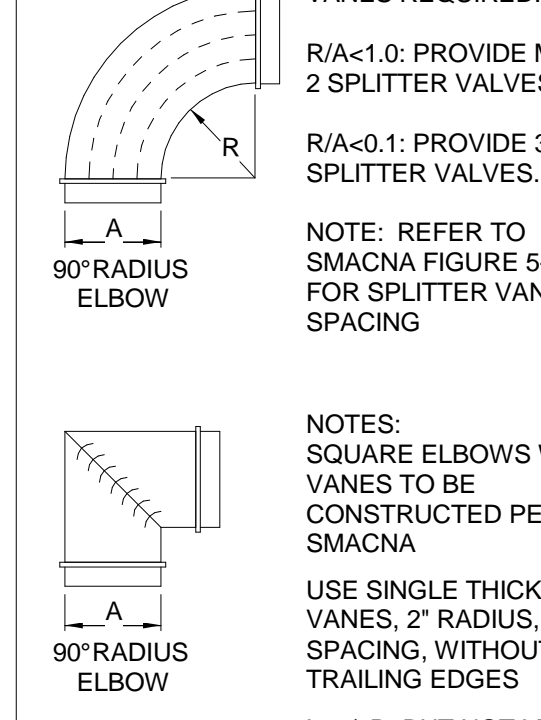
D5 DIFFUSER AND REGISTER CONNECTION DETAIL

SCALE: NOT TO SCALE

ROUND FITTINGS



RECTANGULAR FITTINGS



NOTE: SEE SPECIFICATIONS FOR DUCT MATERIALS AND CONSTRUCTION

A5 MEDIUM PRESSURE AND ROUND DUCT FITTINGS

SCALE: NOT TO SCALE

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
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SHEET TITLE

MECHANICAL
DETAILS

SHEET NUMBER

M-501

Sequence of

3/25/2022 9:05:41 AM
Bridgers & Paxton Project No. 8286
BIM 360/Church Rock Phase II Factory/8286_MEP_Church Rock Factory.rvt

C

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O

1 2 3 4 5 6 7
ALL SELECTIONS ARE BASED ON _____ FT. ABOVE SEA LEVEL.

GRILLES AND DIFFUSERS										
ITEM NO.	MANUFACTURER & MODEL NO.	TYPE	FRAME STYLE	FACE DIMENSIONS (INCH)	NECK DIMENSIONS (INCH)	CFM RANGE	T.P. (IN. W.G.)	MAXIMUM NC	NOTES	
SD-1	PRICE SCD4, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	12X12 24X24	6	91-130	0.02-0.06	24		
	PRICE SCD4, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24X24	8	131-210	0.02-0.06	28		
	PRICE SCD4, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24X24	10	211-320	0.03-0.06	30		
	PRICE SCD4, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24X24	12	321-420	0.03-0.06	30		
	PRICE SCD4, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24X24	14	421-530	0.04-0.06	30		
SD-2	PRICE SCD4, TYPE 3	SUPPLY DIFFUSER	LAY-IN CEILING	24X24	15	531-630	0.03-0.06	30		
	PRICE SCD4, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	12X12 24X24	6	91-130	0.02-0.09	30	PROVIDE OPPOSED BLADE DAMPER	
	PRICE SCD4, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	24X24	8	131-210	0.02-0.09	30	PROVIDE OPPOSED BLADE DAMPER	
	PRICE SCD4, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	24X24	10	211-320	0.02-0.08	30	PROVIDE OPPOSED BLADE DAMPER	
	PRICE SCD4, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	24X24	12	321-420	0.02-0.08	30	PROVIDE OPPOSED BLADE DAMPER	
SD-3	PRICE SCD4, TYPE 1	SUPPLY DIFFUSER	FIXED CEILING	24X24	14	421-530	0.03-0.08	30	PROVIDE OPPOSED BLADE DAMPER	
	PRICE HCD	SIDEWALL SUPPLY	FLAT MARGIN	SEE PLAN	SEE PLANS	SEE PLANS	0.03-0.06	26	PROVIDE OPPOSED BLADE DAMPER	
SD-4	PRICE HCD	SIDE WALL SUPPLY	SURF MOUNTED	SEE PLANS	SEE PLANS	SEE PLANS	0.03-0.06	22	PROVIDE OPPOSED BLADE DAMPER	
SD-4	PRICE SDS	LINEAR SUPPLY	SURF MOUNTED	SEE PLANS	SEE PLANS	SEE PLANS	0.03-0.06	30	PROVIDE LINEAR SLOT PLENUM	
RG-1	PRICE 80	RETURN GRILLE	LAY-IN CEILING	24X24 24X12	SEE PLANS	-	N/A	N/A		
RG-2	PRICE 80	RETURN GRILLE	FIXED CEILING	24X24 24X12	SEE PLANS	-	N/A	N/A		
RG-3	PRICE 530	RETURN GRILLE	SIDEWALL	SEE PLAN	SEE PLANS	-	N/A	N/A		
	PRICE 91	RETURN GRILLE	SIDEWALL	SEE PLAN	SEE PLANS	-	N/A	N/A		
ER-1	PRICE 800	EXHAUST GRILLE	LAY-IN CEILING	24X24 24X12	SEE PLANS	SEE PLANS	0.01-0.08	25	PROVIDE OPPOSED BLADE DAMPER	
ER-2	PRICE 800	EXHAUST GRILLE	FIXED CEILING	24X24 24X12	SEE PLANS	SEE PLANS	0.01-0.08	25	PROVIDE OPPOSED BLADE DAMPER	
ER-3	PRICE 530D	EXHAUST GRILLE	SIDEWALL	SEE PLAN	SEE PLANS	SEE PLANS	0.01-0.08	25	PROVIDE OPPOSED BLADE DAMPER	

UNIT HEATERS															
GENERAL UNIT DATA				HEATING DATA				ELECTRICAL DATA							
SYMBOL	PHASING	MANUFACTURER & MODEL NO.	LOCATION	AIRFLOW (CFM)	MOTOR HP	MOTOR RPM	NOMINAL INPUT @ SEA LEVEL (BTU/H)	OUTPUT @ ELEVATION (BTU/H)	VOLT	PHASE	HZ	MCA	WEIGHT (LBS.)	NOTES	
UH-1	PHASE 3	MODINE PDP 150	MECH ROOM 133	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-2	PHASE 2	MODINE PDP 150	RMS 131	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-3	PHASE 2	MODINE PDP 150	RMS 131	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-4	PHASE 2	MODINE PDP 150	RMS 131	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-5	PHASE 2	MODINE PDP 150	RMS 131	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-6	PHASE 2	MODINE PDP 150	RMS 131	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-7	PHASE 2	MODINE PDP 150	RMS 131	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-8	PHASE 2	MODINE PDP 150	LATEX 129/COAGULANT 130	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-9	PHASE 2	MODINE PDP 150	LATEX 129/COAGULANT 130	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-10	PHASE 2	MODINE PDP 150	LATEX 129/COAGULANT 130	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-11	PHASE 2	MODINE PDP 150	LATEX 129/COAGULANT 130	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-12	PHASE 2	MODINE PDP 150	LATEX 129/COAGULANT 130	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-13	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-14	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-15	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-16	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-17	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-18	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-19	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-20	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-21	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-22	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-23	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-24	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-25	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-26	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-27	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-28	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-29	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-30	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-31	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-32	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-33	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-34	PHASE 2	MODINE PDP 150	GLOVESTRIPS 125/MACHINE 126	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-35	PHASE 2	MODINE PDP 150	WAREHOUSE 123	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-36	PHASE 2	MODINE PDP 150	WAREHOUSE 123	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-37	PHASE 2	MODINE PDP 150	WAREHOUSE 123	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-38	PHASE 2	MODINE PDP 150	WAREHOUSE 123	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-39	PHASE 2	MODINE PDP 150	WAREHOUSE 123	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		
UH-40	PHASE 2	MODINE PDP 150	WAREHOUSE 123	2180	1/8	1625	150,000	124,500	460	3	60	1.01	185		

EXHAUST FANS																								
SYMBOL	PHASING	MANUFACTURER & MODEL NO.	LOCATION	AREA SERVED	TYPE	CFM	S.P. (IN. WC)	FAN RPM	BHP	MOTOR DATA				INLET SOUND POWER BY OCTAVE BAND								OPERATING WEIGHT (LBS.)	NORMAL OR EMERGENCY POWER	NOTES
										HP	VOLT	PHASE	HZ	FLA	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ			
CEF-1	PHASE 2	GREENHECK SP-B110ES	CEILING	RESTROOM 124/128/135/136	CEILING MOUNTED	80	0.35	650	-	30 WATTS	115	1	60	0.27	-	-	-	-	-	-	-	-	-	
CEF-2	PHASE 2	GREENHECK SP-B150	CEILING	JANITORS 127	CEILING MOUNTED	103	0.35	1050	-	128 WATTS	115	1	60	1.8	-	-	-	-	-	-	-	-	-	
CEF-3	PHASE 3	GREENHECK SP-B110ES	CEILING	RESTROOM 124/128/135/136	CEILING MOUNTED	80	0.35	650	-	30 WATTS	115	1	60	0.27	-	-	-	-	-	-	-	-	-	
CEF-4	PHASE 3	GREENHECK SP-B110ES	CEILING	RESTROOM 124/128/135/136	CEILING MOUNTED	80	0.35	650	-	30 WATTS	115	1	60	0.27	-	-	-	-	-	-	-	-	-	
CEF-5	PHASE 2	GREENHECK SP-B110ES	CEILING	RESTROOM 124/128/135/136	CEILING MOUNTED	80	0.35	650	-	30 WATTS	115	1	60	0.27	-	-	-	-	-	-	-	-	-	
EF-1	PHASE 3	GREENHECK CUE-080-VG	ROOF	RESTROOM 102/JAN. 104	DIRECT DRIVE UPBLAST	140	0.5	1573	0.04	1/10	115	1	60	1.38	74	75	69	63	60	59	50	48	35	
EF-2	PHASE 3	GREENHECK CUE-141-VG	ROOF	LOCKERS MENS 113/LOCKERS WOMENS 117	DIRECT DRIVE UPBLAST	1970	0.5	1341	0.38	3/4	115	1	60	8.8	72	80	78	71	65	68	60	54	70	
EF-3	PHASE 3	GREENHECK CUBE-300-VGD-50	ROOF	GLOVESTRIPS 125/MACHINE 126	BELT DRIVE UPBLAST	12,500	0.5	847	3.5	5	208	3	60	16.7	85	92	92	82	79	75	69	65	262	MULTIPLE INSTANCES ON PLANS
EF-4	PHASE 3	GREENHECK CUE-200-VG	ROOF	FORMER CLEANING AND STORAGE 137	DIRECT DRIVE UPBLAST	4600	0.5	2	2	2	208	1	60	10.3	60	60	59	59	69	69	69	176		
EF-5	PHASE 3	GREENHECK CUE-180-VG	ROOF	HAZARDOUS MATERIALS 138	DIRECT DRIVE UPBLAST	3000	0.5	1325	0.52	2	2	208	1	60	12.5	74	78	81	73	67	71	61	118	
EF-6	PHASE 2	GREENHECK SBE-3H30-5	WALL MOUNTED	GLOVESTRIPS 125/MACHINE 126	SIDEWALL BELT DRIVE	5600	0.25	1725	0.47	1/2	115	1	60	9.8	82	81	81	77	73	71	68	228		

INSTRUMENTATION SOCIETY OF AMERICA TABLE

FIRST LETTER		SUCCEEDING LETTERS		
MEASURING OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A ANALYSIS		ALARM		
B BURNER FLAME		USER CHOICE	USER CHOICE	USER CHOICE
C CONDUCTIVITY			CONTROL (13)	
D DENSITY	DIFFERENTIAL			
E VOLTAGE		SENSOR PRIMARY ELEMENT		
F FLOW RATE	RATIO FRACTION			
G GAUGE		GLASS, VIEWING DEVICE		
H HAND				HIGH
I CURRENT		INDICATE		
J POWER	SCAN			
K TIME	TIME RATE OF CHANGE		CONTROL STATION	
L LEVEL		LIGHT		LOW
M MOTION	MOMENTARY			MIDDLE INTERMEDIATE
N HUMIDITY		USER DEFINED	USER DEFINED	USER DEFINED
O USER CHOICE		ORIFICE RESTRICTION		
P PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q QUANTITY	INTEGRATE, TOTALIZE			
R RADIATION		RECORD		
S SPEED, FREQUENCY	SAFETY		SWITCH	
T TEMPERATURE			TRANSMIT	
U VIBRATION, MECHANICAL		MULTI-FUNCTION	MULTI-FUNCTION	MULTI-FUNCTION
V ANALYSIS			VALVE, DAMPER LOUVER	
W WEIGHT, FORCE		WELL		
X UNCLASSIFIED	X-AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y EVENT, STATE OR PRESENCE	Y-AXIS		RELAY, COMPUTE CONVERT	
Z POSITION DIMENSION	Z-AXIS		DRIVER, ACTUATOR UNCLASSIFIED	
			FINAL CONTROL ELEMENT	

INSTRUMENTATION TYPE ABBREVIATION LIST

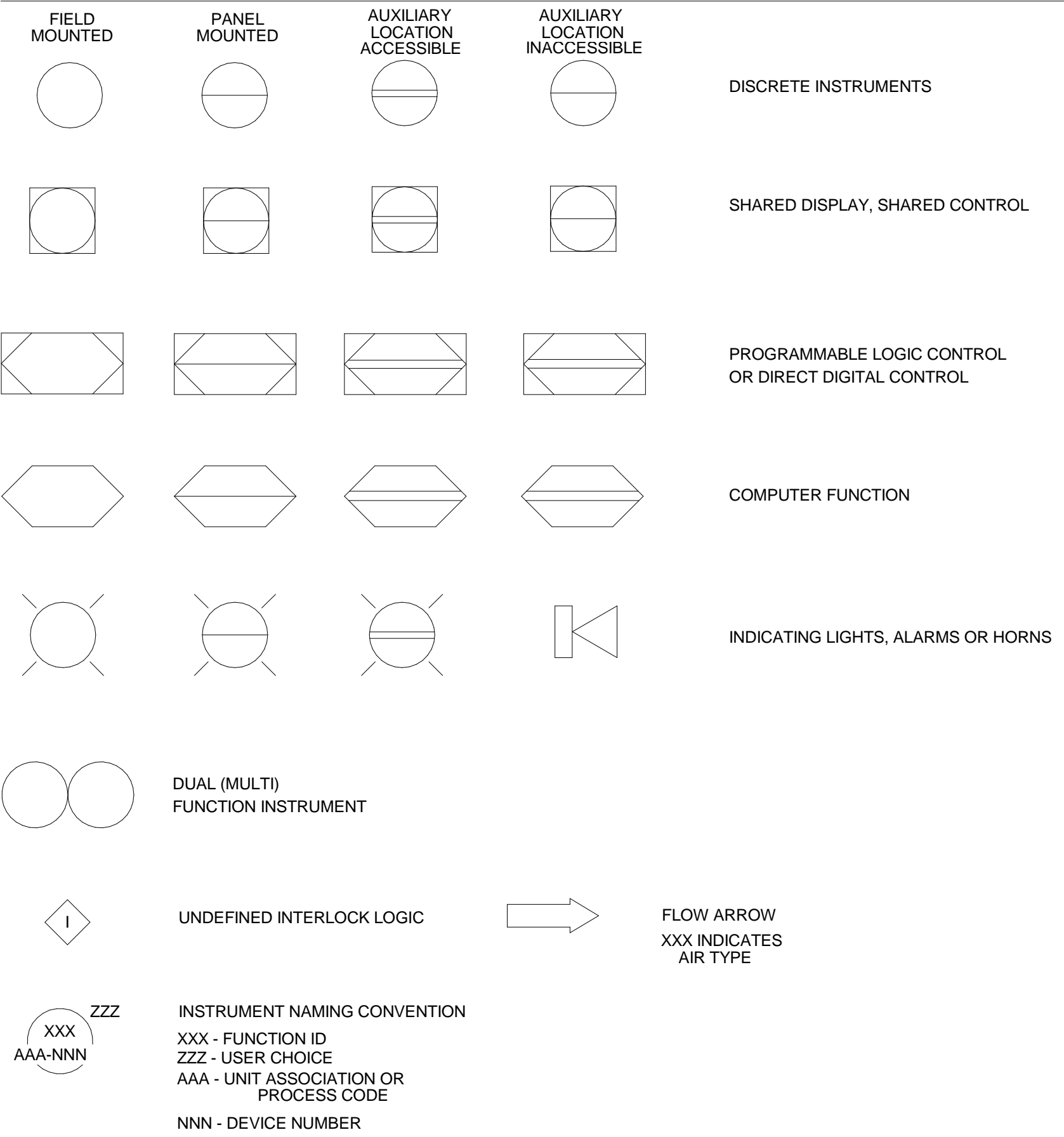
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AA	ANALYTICAL ALARM	LA	LEVEL ALARM	VA	VIBRATION ALARM
AE	ANALYTICAL ELEMENT	LC	LEVEL CONTROLLER (STAND ALONE)	VS	VIBRATION SWITCH
AET	ANALYTICAL ELEMENT TRANSMITTER	LCV	LEVEL CONTROL VALVE		
AI	ANALYTICAL INDICATOR	LE	LEVEL ELEMENT	XV	SOLENOID VALVE
AC	ANALYTICAL CONTROLLER	LIC	LEVEL INDICATING CONTROLLER		
AIC	ANALYTICAL INDICATING CONTROLLER	LIT	LEVEL INDICATING TRANSMITTER	YA	EQUIPMENT ALARM
AT	ANALYTICAL TRANSMITTER	LS	LEVEL SWITCH	YI	EQUIPMENT STATUS
AIT	ANALYTICAL INDICATING CONTROLLER	LT	LEVEL TRANSMITTER	YCD	SMOKE DAMPER
ACV	ANALYTICAL CONTROL VALVE	LY	LEVEL SIGNAL CONVERTER	YS	SMOKE DETECTOR
AY	ANALYTICAL SIGNAL CONVERTER				
EI	VOLTAGE INDICATOR	MV	MANUAL HAND VALVE	ZC	POSITION CONTROL
EA	VOLTAGE ALARM			ZI	POSITION INDICATOR
ES	VOLTAGE SWITCH (CONTROL RELAY)	NT	HUMIDITY TRANSMITTER	ZS	POSITION SWITCH
ESL	VOLTAGE SWITCH LOW (24 VAC OR LESS)	PA	PRESSURE ALARM		
ET	VOLTAGE TRANSMITTER	PCV	PRESSURE CONTROL VALVE	VA	VIBRATION ALARM
EY	VOLTAGE SIGNAL CONVERTER	PDI	PRESSURE DIFFERENTIAL INDICATOR	VS	VIBRATION SWITCH
		PDS	PRESSURE DIFFERENTIAL SWITCH		
FA	FLOW ALARM	PDT	PRESSURE DIFFERENTIAL TRANSMITTER		
FCV	FLOW CONTROL VALVE	PI	PRESSURE INDICATOR		
FE	FLOW ELEMENT	PIS	PRESSURE INDICATING SWITCH		
FET	FLOW ELEMENT/TRANSMITTER	PIT	PRESSURE INDICATING TRANSMITTER		
FI	FLOW INDICATOR	PS	PRESSURE SWITCH		
FIT	FLOW INDICATING TRANSMITTER	PT	PRESSURE TRANSMITTER		
FS	FLOW SWITCH	PY	PRESSURE SIGNAL CONVERTER		
FT	FLOW TRANSMITTER				
FY	FLOW SIGNAL CONVERTER	SC	SPEED CONTROL		
		SCM	SPEED CONTROL MANUAL		
HK	MANUAL VARIABLE CONTROL				
HS	HAND SWITCH	TA	TEMPERATURE ALARM		
HSI	HAND SWITCH INDICATOR	TC	TEMPERATURE CONTROLLER		
		TCV	TEMPERATURE CONTROL VALVE		
II	CURRENT INDICATOR	TE	TEMPERATURE ELEMENT		
IA	CURRENT ALARM	TET	TEMPERATURE ELEMENT TRANSMITTER		
IS	CURRENT SWITCH	TI	TEMPERATURE INDICATOR		
IT	CURRENT TRANSMITTER	TIT	TEMPERATURE INDICATING TRANSMITTER		
IV	CURRENT SIGNAL CONVERTER	TIC	TEMPERATURE INDICATING CONTROLLER		
		TS	TEMPERATURE SWITCH		
JIT	POWER INDICATING TRANSMITTER	TSL	FREEZE STAT		
JY	POWER SIGNAL CONVERTER	TT	TEMPERATURE TRANSMITTER		
KC	TIME CLOCK				

FMS SYSTEM OPERATING CONSTRAINTS

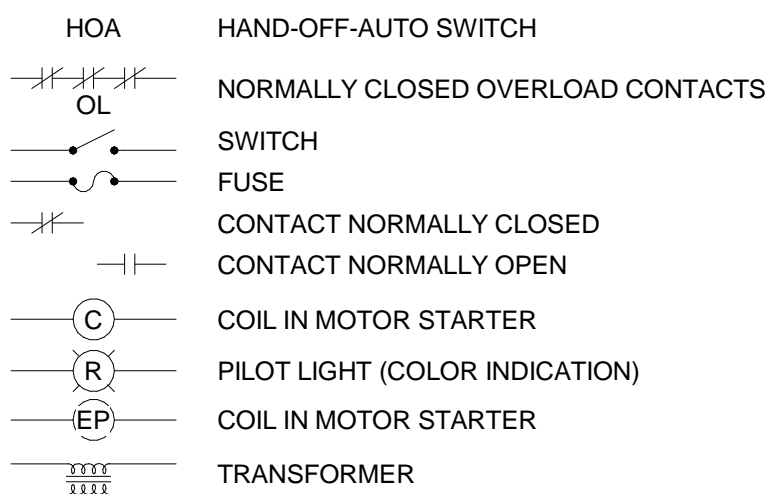
THE FMS CONTROL SYSTEM SHALL OPERATE WITHIN THE FOLLOWING SYSTEM CONSTRAINTS FOR CONTROL:

SUPPLY AIR DRYBULB TEMPERATURE	+/- 0.5°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
MIXED AIR DRYBULB TEMPERATURE	+/- 0.5°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTR OL SIGNAL
WATER TEMPERATURE	+/- 0.5°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTR OL SIGNAL
DUCT STATIC PRESSURE	+/- 0.1" W.C. OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
SUPPLY/ RETURN AIR VOLUME	+/- 2.5% OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
OUTSIDE AIR RELIEF AIR VOLUME	+/- 2.5% OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
BUILDING PRESSURE	+/- 0.01" W.C. OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
ROOM TEMPERATURE	+/- 1.0°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTR OL SIGNAL
ROOM AIR VOLUME	+/- 2.5% OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
HUMIDITY LEVEL	+/- 2.5% R.H. OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL
WATER TEMPERATURE	+/- 1.0°F OF SETPOINT WITH HUNTING OF < 5% OF THE CONTR OL SIGNAL
WATER DIFFERENTIAL PRESSURE	+/- 1.0 PSI OF SETPOINT WITH HUNTING OF < 5% OF THE CONTROL SIGNAL

GENERAL INSTRUMENT OR FUNCTION SYMBOLS



LADDER DIAGRAM SYMBOLS



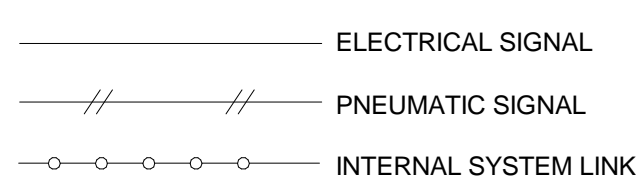
ABBREVIATIONS

IA INSTRUMENTATION AIR
DDC DIRECT DIGITAL CONTROL
C COMMON VALVE PORT
F.O FAIL OPEN
F.C FAIL CLOSED
SR SPRING RANGE
TR THROTTLING RANGE
PH PREHEAT
HR HEAT RECOVERY
CPA CONTROL POINT ADJUSTMENT
SPDT SINGLE POLE DOUBLE THROW
DPDT DOUBLE THROW DOUBLE POLE
DA DIRECT ACTING
RA REVERSE ACTING

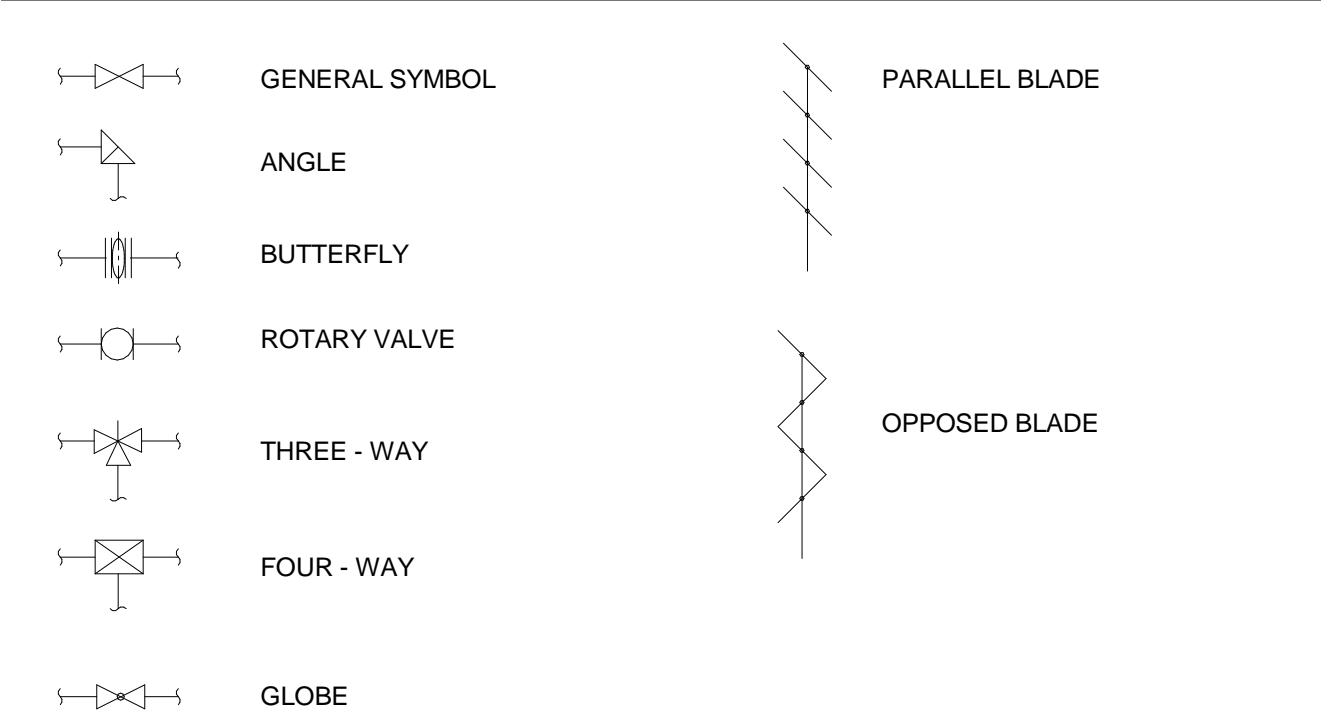
PROCESS CODES

TW COOLING TOWER OR CONDENSER WATER
CHW CHILLED WATER
SCHW SECONDARY CHILLED WATER
HW HOT WATER
SHW SECONDARY HOT WATER
STM STEAM

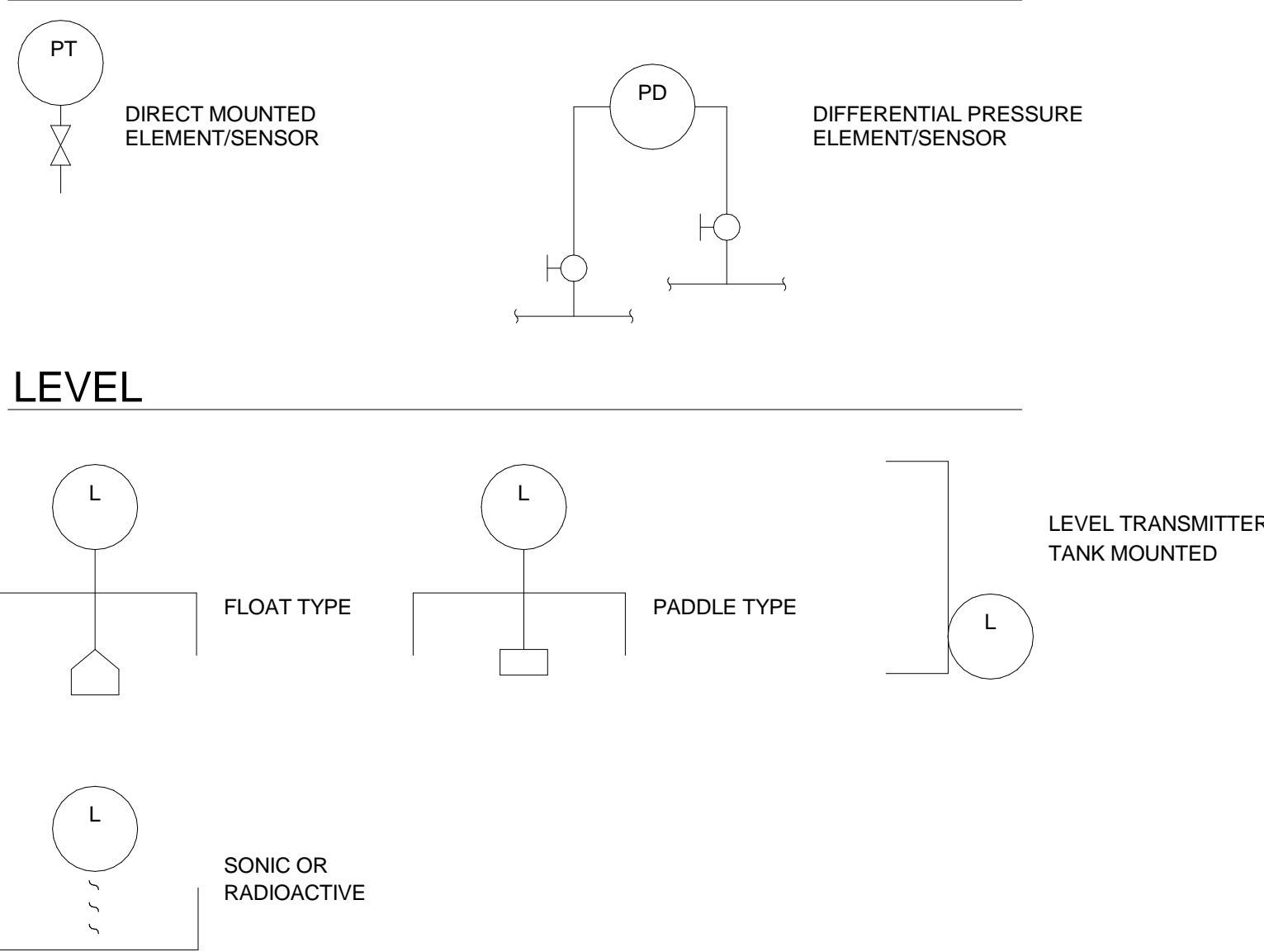
LINE LEGEND



CONTROL VALVE BODY/ DAMPER SYMBOLS

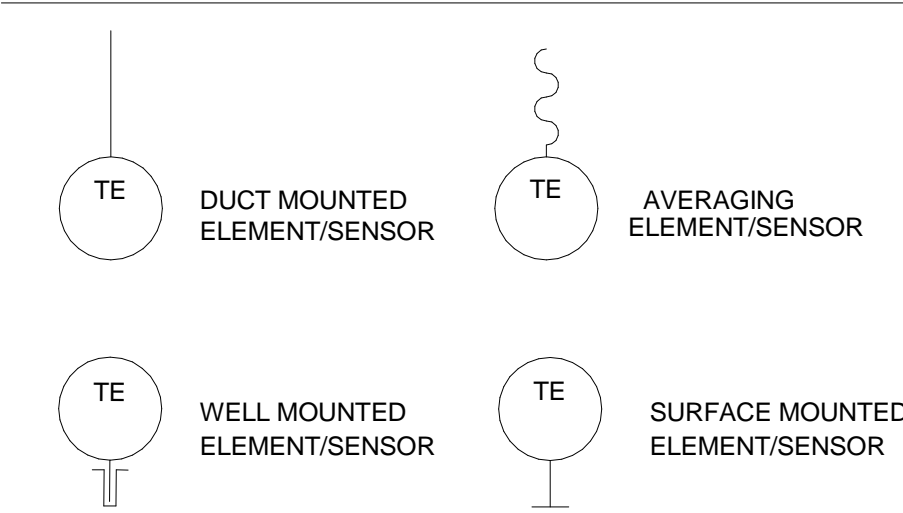


PRESSURE



LEVEL

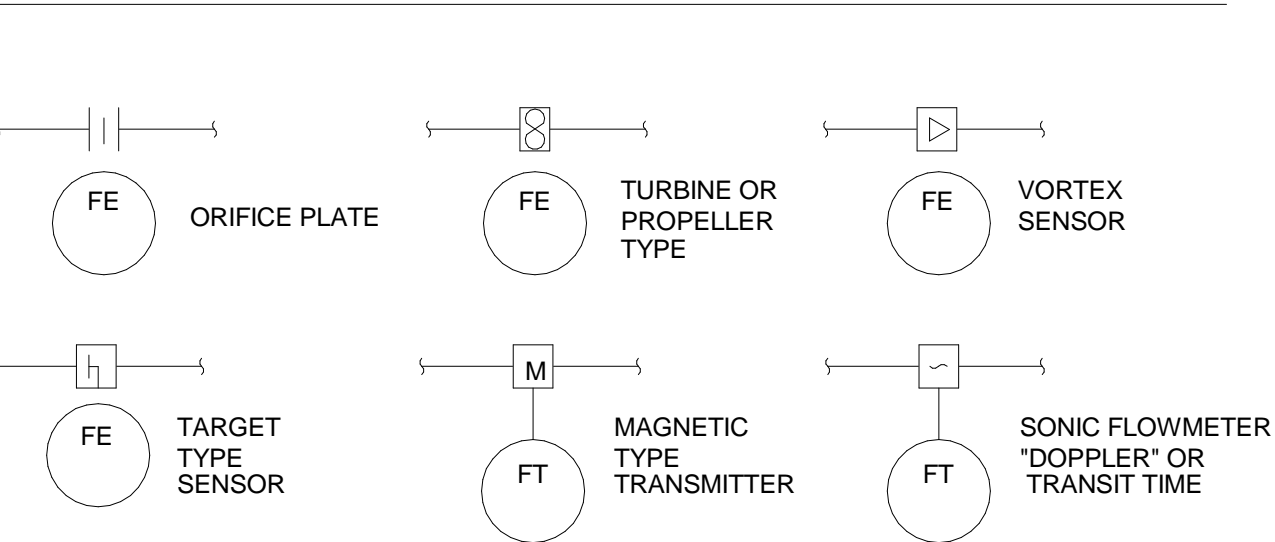
TEMPERATURE



CURRENT



FLOW



CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC

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SHEET TITLE

MECHANICAL
CONTROLS
LEGEND

SHEET NUMBER

MI001

Sequence of



Each unit shall be provided with a factory packaged control system which shall control the unit to maintain the space temperature at setpoint.

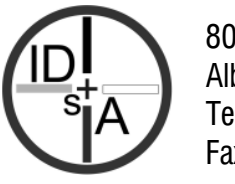
CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS

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SHEET TITLE

MECHANICAL CONTROLS

SHEET NUMBER


MI601

Sequence of

ELECTRICAL SYMBOL LEGEND

UPDATED: 09/07/2016	
ABBREVIATIONS	
ABBREV.	DEFINITION
A	AMPS, AMPERE, AMPERAGE
AC	ABOVE COUNTER
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AI	AVAILABLE INTERRUPTING CURRENT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATSC	AUTOMATIC TRANSFER SWITCH CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO/VISUAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CLOCK
CL	CURRENT LIMITING FUSE
CO	CONDUIT ONLY
CU	COPPER
D	DIMMING
D	DIRECT CURRENT
DIA	DAY-LIGHTING
DIA	DIAMETER
E	EMERGENCY
EG	EMERGENCY, CRITICAL
EG	ENGINE GENERATOR
EL	EMERGENCY, LIFE SAFETY
EQ	EMERGENCY, EQUIPMENT
EX	EXISTING
FUT	FUTURE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FDR	FEDDER
FMS	FACILITY MANAGEMENT SYSTEM
G	GENERATOR
G OR GFCI	GROUND FAULT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFEF	GROUND FAULT EQUIPMENT PROTECTION
GFCI	GROUND FAULT PROTECTION
GND	GROUND.
HOA	HAND-OFF-AUTOMATIC.
HSP	HORSERPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
THIRDMIL	THIRDSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMP
KVAR	KILOVOLT AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR.
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT PROTECTION
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
MM	MIXED MEDIA
MTS	MANUAL TRANSFER SWITCH
MVA	MEGAVOLT AMPS
N	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NORM	NORMAL
NM	NEW MEXICO
NO	NORMALLY OPEN
OH	OVERHEAD
PO	POL
PA	PUBLIC ADDRESS
PC	PHOTOCELL
PH	PHASE
PMCS	POWER MONITORING AND CONTROL SYSTEM
R	REMOVED/REMOVAL
RC	ROOM CONTROLLER
RSD	RIGID STEEL CONDUIT
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
TEMP	TEMPORARY
TB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYPE	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UNIVERS	UNIVERSITY LABORATORIES
UNON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS, VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W	WALL MOUNTED
WG	WEATHERPROOF AND GFCI
W	WEATHERPROOF
XFER	TRANSFER
XFMR (TRANSF)	TRANSFORMER

ELECTRICAL EQUIPMENT NAMING CONVENTION



1, 2, 3, ... = SUBFED PANEL

A, B, C, ... = SEQUENCE OF PANELS OF THIS TYPE

0, 1, 2, 3, ... = FLOOR / LEVEL

(SB=SUB-BASEMENT, B=BASEMENT, M=MEZZANINE, P=PENTHOUSE)

T = TRANSFORMER

DB = DISTRIBUTION BOARD

DP = DISTRIBUTION PANEL

MSB= MAIN SWITCH BOARD

MC= MOTOR CONTROL CENTER

= ISOLATED PANELBOARD

ATS = AUTOMATIC TRANSFER SWITCH

PDU = POWER DISTRIBUTION UNIT

UPS = UNINTERRUPTIBLE POWER SUPPLY

B = BUSWAY

H = HIGH VOLTAGE PANELBOARD (480V/277V)

L = LOW VOLTAGE PANELBOARD (208V/120V)

E = EMERGENCY

EL = EMERGENCY LIFE SAFETY-BRANCH

EC = EMERGENCY-CRITICAL-BRANCH

EQ = EMERGENCY-EQUIPMENT-BRANCH

SES = SERVICE ENTRANCE SECTION

NUMBER OR MAIN EMERG SWBD NUMBER

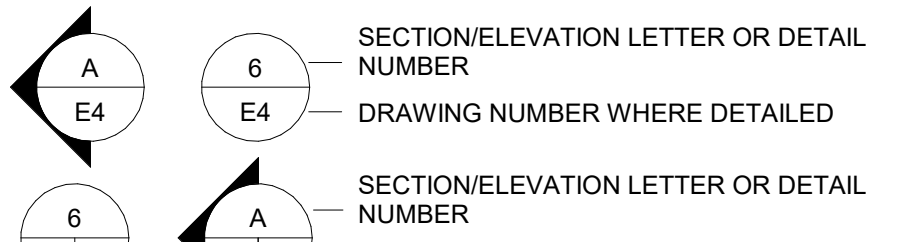
EXAMPLES:

- A SE1 (SERVICE ENTRANCE SECTION #1)
- B 1H1A (SERVED FROM SES#1, 480/277 VORMAL, LEVEL 1, FIRST BOARD)
- C 1EQ1A (SERVED FROM MAIN EMERG SWBD #1, 480/277 VORMAL, LEVEL 1, FIRST BOARD)

RACEWAY & CONDUCTORS

BRANCH CIRCUIT GENERAL INFORMATION:	
BRANCH CIRCUITS FROM OVERCURRENT PROTECTION (20A) TO FURTHEST DEVICE SHALL NOT EXCEED 75 FEET FOR 15 AMP GANGING AND 100 FEET FOR #10AWG COPPER; MEASURED ALONG CONDUCTORS ROUTING PATH. BRANCH CIRCUITS EXCEEDING 150 FEET WILL BE SIZED SO THAT VOLTAGE DROP DOES NOT EXCEED 5%.	
SYMBOL	DESCRIPTION
 = GROUND	CONDUCTOR IDENTIFICATION SYMBOLS. REFER TO PLANS FOR COMBINATION USE. CONDUCTOR IDENTIFICATION MOSTLY USED IN HOMERUN IDENTIFICATION ONLY. BUT CAN BE USED IN BRANCH CIRCUITING WHERE APPLIED. GROUND CONDUCTORS WILL BE INSTALLED IN ALL RACEWAYS WHETHER SHOWN OR NOT.
 = HOT/PHASE	
 = NEUTRAL	
 = SWITCH LEG	
 LA-1	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER(S). CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
 LA-1,3	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER(S). SYMBOL REPRESENTS A MULTITRIP CIRCUIT. NUMBER OF CONDUCTORS IN HOMERUN WILL INDICATE A SEPARATE NEUTRAL FOR EACH CIRCUIT NUMBER CONDUCTOR. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
 LA-5,7,9	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL TWO OR THREE POLE CIRCUIT BREAKERS. CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. NEUTRAL MAY BE USED WHERE INDICATED ON PLAN. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
 LA-1,3	CONCEALED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT IN WALLS OR IN CEILING SPACE
 LA-5,7,9	UNDERGROUND RACEWAY BETWEEN DEVICES AND OR EQUIPMENT
 LA-1,3	EXPOSED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT ON WALLS OR CEILINGS
 LA-5,7,9	CONDUIT TURNS
 LA-1,3	CONDUIT STUBBED AND CAPPED
 LA-5,7,9	BUSWAY
 LA-1,3	GROUNDING CONDUCTOR
 LA-5,7,9	CABLE TRAY - POWER AND TELECOMMUNICATIONS TELECOMMUNICATIONS RACEWAY
 LA-1,3	DATA RACEWAY
 LA-5,7,9	VOICE/DATA COMBINATION RACEWAY
 LA-1,3	FIRE ALARM RACEWAY

GENERAL DRAWING SYMBOLS



The diagram illustrates standard drawing symbols for section and elevation views. It includes two types of section symbols: one for a section cut (a diamond shape with 'A' at the top and 'E4' at the bottom) and one for a detail view (a circle with '6' at the top and 'E4' at the bottom). These are paired with their respective callout text: 'SECTION/ELEVATION LETTER OR DETAIL NUMBER' and 'DRAWING NUMBER WHERE DETAILED'. A North arrow symbol, consisting of a circle with a vertical line and the word 'NORTH' above it, is shown with the label 'NORTH ARROW OR MATCH ARCHITECT'S'. A graphic scale bar with markings for 0, 10', 20', 40', and 80' is shown with the label 'SCALE BAR OR MATCH ARCHITECT'S'. Below the scale bar, the text '1" = 40'-0"' indicates the scale.

SECTION/ELEVATION LETTER OR DETAIL NUMBER

DRAWING NUMBER WHERE DETAILED

SECTION/ELEVATION LETTER OR DETAIL NUMBER

DRAWING NUMBER WHERE DETAILED

DRAWING NUMBER WHERE TAKEN














NORTH




NORTH ARROW OR MATCH ARCHITECT'S

0 10' 20' 40' 80'

SCALE BAR OR MATCH ARCHITECT'S

1" = 40'-0"

























DEMOLITION		
SYMBOL	DESCRIPTION	NOTES
  	DASHED SYMBOL INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED	
 R 	REMOVE EXISTING RACEWAY IN ALL ACCESSIBLE AREAS, CAPPED AND ABANDONED IF IN UNACCESSIBLE AREA	REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION
  		
  	SOLID SYMBOL, LIGHTER IN COLOR INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN	
 EX 	EXISTING CONDUIT TO BE REUSED	

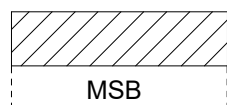
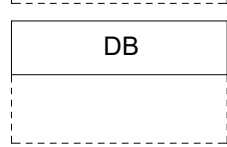
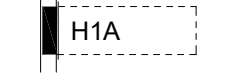

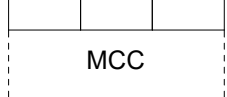
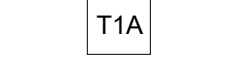
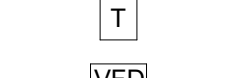

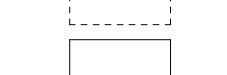
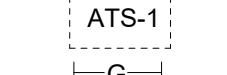

REFERENCE TAGS	
SYMBOL	DEFINITION
	KEYED NOTE REFERENCE
<u>VAV-9</u>	MECHANICAL EQUIPMENT REFERENCE
+44"	DENOTES MOUNTING HEIGHT AFF
	KITCHEN EQUIPMENT REFERENCE
	MEDICAL EQUIPMENT REFERENCE

Electrical Symbols and Devices


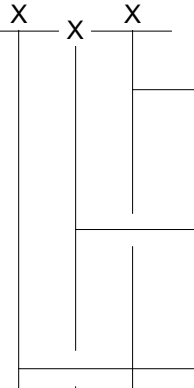
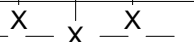
Device Indicator Letter. "X" Equals Designation Below (Typical for Most Receptacle Types):

Blank for Normal Power
G = GFCI Rated
IG = Isolated Ground
T = Tamperproof
WG = Weatherproof (and GFCI)
WP = Weatherproof (N-Inse Cover)
CL = Clock
TV = Television

Symbol		Description	Mounting Loc.	HT.
	X	IN FLOOR DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
	X	IN FLOOR DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
	X	IN FLOOR EMERGENCY DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS	FLOOR	VARIES
	X	IN FLOOR EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
	X	COMBINATION DUPLEX RECEPTACLE AND COMMUNICATIONS FLOORBOX. DEVICE CONFIGURATION AS INDICATED ON PLANS.		
	X	CEILING MOUNTED DUPLEX RECEPTACLE		
	X	CEILING MOUNTED DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
	X	CEILING MOUNTED EMERGENCY DUPLEX RECEPTACLE	CEILING	FLUSH
	X	CEILING MOUNTED EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
	X	COMBINATION POWER/COMMUNICATION IN CEILING OUTLET. CONFIGURATION AS INDICATED ON PLANS		
	X	SIMPLEX RECEPTACLE		
	X	DUPLEX RECEPTACLE		
	X	DOUBLE DUPLEX (QUADPLEX) RECEPTACLE	WALL, UON	+18" UON
	X	EMERGENCY DUPLEX RECEPTACLE		
	X	EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
	X	SPECIAL PURPOSE RECEPTACLE. NEMA CONFIGURATION AND AMPERAGE AS NOTED ON PLANS		
		MULTI-OUTLET ASSEMBLY (SURFACE MOUNTED RACEWAY)	VARIES SEE PLANS	VARIES SEE PLANS
		COMBINATION POWER/COMMUNICATION POLE. CONFIGURATION AS NOTED ON PLANS	VARIES SEE PLANS	
	J	WALL MOUNTED CODE SIZE J-BOX		
	J	CODE SIZE JUNCTION BOX	VARIES SEE PLANS	VARIES SEE PLANS
	P	CODE SIZE PULLBOX (OR AS SIZED ON PLAN)	VARIES SEE PLANS	VARIES SEE PLANS
	PC	PUSHBUTTON (EMERGENCY POWER OFF - EPO)		
		PHOTOCELL		
		LIGHTNING PROTECTION AIR TERMINAL	ROOF	VARIES +44" UON
	T	THERMOSTAT	WALL	
	CB	ENCLOSED CIRCUIT BREAKER		
	30/3R	AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
	30/1	NON-FUSED DISCONNECT SWITCH		
		AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
	30/3R	FUSED DISCONNECT SWITCH		
		AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON	VARIES	VARIES
	0/1	MOTOR STARTER. STARTER SIZE INDICATED BY NUMBER/NEMA ENCLOSURE RATING, SINGLE SPEED UON		
	1/30/3R	COMBINATION FUSIBLE DISCONNECT SWITCH AND MOTOR STARTER. NEMA STARTER SIZE/AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
	5	MOTOR. NUMBER INDICATES HORSEPOWER RATING FOR 1HP AND LARGER		
	F	MOTOR. "F" INDICATES FRACTIONAL HORSEPOWER	N/A	N/A

























SYMBOL	DESCRIPTION
	MAIN SWITCHBOARD. DASHED LINES INDICATE CLEANCES.
	DISTRIBUTION BOARD OR PANEL. DASHED LINES INDICATE CLEANCES.
	FLUSH MOUNTED PANELBOARD. DASHED LINES INDICATE CLEANCES.
	SURFACE MOUNTED PANELBOARD. DASHED LINES INDICATE CLEANCES.
	MOTOR CONTROL CENTER. DASHED LINES INDICATE CLEANCES.
	DRY TYPE TRANSFORMER (15KVA OR ABOVE), WITH EQUIPMENT TAG (TAG INSIDE OR OUTSIDE, DEPENDING ON SIZE), IN MOST CASES, ACTUAL SIZE SHOWN ON PLANS (ELECTRICAL ROOMS).
	DRY TYPE TRANSFORMER (LESS THAN 15KVA) WITH EQUIPMENT TAG. SIZE, TYPE AND LOCATION NOTED ON PLANS.
	VARIABLE FREQUENCY DRIVE
	UNINTERRUPTABLE POWER SUPPLY. DASHED LINES INDICATE CLEANCES.
	AUTOMATIC TRANSFER SWITCH. DASHED LINES INDICATE CLEANCES.
	GROUND BAR
















LEGEND (NOT ALL SYMBOLS ARE LISTED)			
LIGHTING			
REFER TO LUMINAIRE SCHEDULE FOR ALL LUMINAIRE TYPES WHETHER WALL MOUNTED OR CEILING MOUNTED.			
SYMBOL	DESCRIPTION	MOUNTING	
		LOC.	Ht.
	HATCHING INDICATES EMERGENCY LIGHTING. HATCH WILL BE MODIFIED FOR EACH LUMINAIRE TYPE. EMERGENCY LUMINAIRE DESIGNATED WITH "E" IN TYPE DESIGNATION.	VARIES	
	RECESSED MOUNTED LUMINAIRE. SMALL CASE "a" DENOTES SWITCHING, NUMBER "3" DENOTES BRANCH CIRCUITING. SYMBOL "A" DENOTES LUMINAIRE TYPE		
	SURFACE MOUNTED LUMINAIRE. LUMINAIRE TYPE AS INDICATED ON PLANS	CEILING	
	LINEAR DIRECT/INDIRECT LUMINAIRE, CABLE OR STEM MOUNTED		
	DOWN LIGHT LUMINAIRE; CEILING MOUNTED		
	WALL MOUNTED LUMINAIRES	WALL	
	TRACK MOUNTED LUMINAIRES		
	STRIP LUMINAIRE	SURFACE	
WALL	EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS		
CEILING			
WALL	DOUBLE FACE EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS	VARIES	
CEILING	EMERGENCY BATTERY PACK LUMINAIRE (BUG-EYE/FROG-EYE)		
	SINGLE HEAD, POLE MOUNTED LUMINAIRE		
	DOUBLE HEAD, POLE MOUNTED LUMINAIRE	EXTERIOR	AS DETAILED
	DEVICE INDICATOR LETTER "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST SWITCH TYPES)		
	a = SMALL CASE LETTER DENOTES SWITCHING CONTROL		
	2 = DOUBLE POLE TOGGLE SWITCH		
	3 = THREE-WAY TOGGLE SWITCH		
	4 = FOUR-WAY TOGGLE SWITCH		
	P = PILOT LIGHT TOGGLE SWITCH		
	M = MOMENTARY CONTACT SWITCH		
	K = KEY OPERATED SWITCH		
	WP = WEATHERPROOF TOGGLE SWITCH		
	T = MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION		
	D = DIMMER SWITCH		
	TW = TWIST TIMER SWITCH		
	WALL MOUNTED OCCUPANCY SENSOR; TYPE AS INDICATED ON PLANS		
	CEILING MOUNTED OCCUPANCY SENSOR; TYPE AS INDICATED ON PLANS		
	DAY-LIGHTING SENSOR; TYPE AS INDICATED ON PLANS	CEILING	SURFACE
	ROOM CONTROLLER; TYPE AS INDICATED ON PLANS		

SYMBOL	DESCRIPTION
	DISTRIBUTION POLE FOR OVERHEAD ELECTRICAL OR COMMUNICATIONS AS INDICATED ON PLAN.
	<p>OVERHEAD UTILITY AND/OR SYSTEM DISTRIBUTION.</p> <p>3PH = THREE PHASE 1PH = SINGLE PHASE</p> <p>P = ELECTRICAL PRIMARY S = ELECTRICAL SECONDARY T = TELECOMMUNICATION TV = TELEVISION E = EMERGENCY POWER ATSC = AUTOMATIC TRANSFER SWITCH CONTROL</p> <p>N = NEW EX = EXISTING</p>
	UNDERGROUND UTILITY AND/OR SYSTEM DISTRIBUTION.
UT	UTILITY OR FACILITY TRANSFORMER
S	PAD MOUNTED SWITCH
CC	CONNECTION CABINET (UTILITY METER MOUNT)
PM	PRIMARY SITE METER ENCLOSURE
ME	METER ENCLOSURE, EITHER ON BUILDING OR ON UTILITY EQUIPMENT
CT	CT ENCLOSURE, EITHER ON BUILDING OR ON UTILITY EQUIPMENT
MH	MANHOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
HH	HAND HOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
EG	ENGINE GENERATOR
TP	TELECOMMUNICATION PEDESTAL
TVP	TELEVISION PEDESTAL

FIRE ALARM		MOUNTING	
SYMBOL	DESCRIPTION	LOC.	HT.
	FIRE ALARM CONTROL PANEL	WALL	-
	FIRE ALARM TERMINAL CABINET (EQUIPMENT NAMING CONVENTION PER PLANS)		
	FIRE ALARM ANNUCIATOR PANEL		
	PULL STATION	WALL	+44"
	FIREMAN'S TELEPHONE OUTLET		
	HORN NOTIFICATION		
	SPEAKER NOTIFICATION		
	CHIME NOTIFICATION		
	COMBINATION SPEAKER AND CHIME NOTIFICATION	WALL	+80" UON
	SPEAKER/HORN WITH STROBE LIGHT		
	STROBE LIGHT ONLY		
	BELL (GONG)		
	PHOTOELECTRIC SMOKE DETECTOR	CEILING	SURFACE
	IONIZATION SMOKE DETECTOR		
	COMBINATION RATE OF RISE / FIXED TEMPERATURE		
	FIXED TEMPERATURE, TEMPERATURE AS NOTED ON PLANS OR SPECIFICATIONS RATE OF RISE ONLY		
	CARBON MONOXIDE DETECTOR		
	BEAM TRANSMITTER	CEILING OR WALL	VARIES
	BEAM RECEIVER		
	UNDER FLOOR SMOKE DETECTOR	UNDER FLOOR	SEE PLANS
	DUCT DETECTOR	AT DUCT	SEE PLANS
	FIRE/SMOKE DAMPER		
	PRESSURE SWITCH		
	TAMPER SWITCH		
	FLOW SWITCH	PIPE	VARIES
	POST INDICATOR VALVE		
	MAGNETIC DOOR HOLDER		
	CONTROL RELAY	VARIES	SEE PLANS
	MONITOR MODULE		
	REMOTE ALARM INDICATING LIGHT		
	ADDRESSABLE/SUPERVISED RELAY		

ONE-LINE DIAGRAM	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, TRIP SETTING/FRAME SIZE OR NO. OF POLES, SETTINGS AND PROTECTION AS NOTED ON PLANS
	DRAWOUT CIRCUIT BREAKER (TRIP SETTING - FRAME SIZE)
	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER (TRIP SETTING - FRAME SIZE)
	TRANSFORMER, TRANSFORMER NAME, TRANSFORMER KVA RATING, PRIMARY VOLTAGE AND WIRING CONFIGURATION, SECONDARY VOLTAGE, K RATING (IF APPLICABLE)
	CURRENT TRANSFORMER, NUMBER "3000/5" DENOTES RATIO.
	POTENTIAL TRANSFORMER.
	DISCONNECT SWITCH, "300A" DENOTES AMPERAGE RATING
	FUSE, "300A" DENOTES AMPERAGE RATING
	GROUND FAULT PROTECTION
	SHUNT TRIP OPERATOR
	GROUND CONNECTION
	TRANSFER SWITCH, SEE PLANS FOR TYPE OF SWITCH
	SURGE ARRESTOR
	SURGE PROTECTIVE DEVICE
	KILOWATT METER
	ELECTRONIC METER
	KIRK KEY INTERLOCK No. 1
	RELAY No. 1
	AMMETER SWITCH
	AMMETER
	VOLTMETER SWITCH
	VOLTMETER
	DELTA CONNECTED
	WYE CONNECTED
	GENERATOR
	VFD CONNECTION
	MOTOR CONNECTION
	UPS

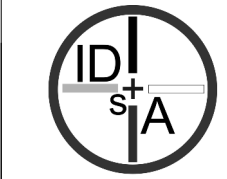
SPECIAL SYMBOLS			
SYMBOL	DESCRIPTION	MOUNTING	
		LOC.	HT.
	FLOOR BOX WITH POWER AND DATA	FLOOR	VARIABLE SEE PLANS
	VOICE/ DATA OUTLET	WALL	+18" UON
AC 	VOICE/ DATA OUTLET ABOVE COUNTER TOP	WALL	+44" UON
W 	TELEPHONE OUTLET WALL MOUNTED		+44" UON
	INTERCOM CALL SWITCH		
	INTERCOM MASTER STATION		
	COMMUNICATION HORN		
	COMMUNICATION BELL	WALL	+84" UON
	INTERCOM WALL SPEAKER		
	INTERCOM SPEAKER HORN	WALL	+96" UON
	DURESS ALARM PUSHBUTTON		
	LOCK DOWN PUSHBUTTON	WALL	SEE PLANS
	WALL MOUNTED CODE SIZE J-BOX		
	WALL MOUNTED CODE SIZE J-BOX		
	STACKED VERTICALLY	WALL	SEE PLANS
	COMBINATION CLOCK/SPEAKER	WALL	SEE PLANS
	DIGITAL SIGNAGE VIDEO DISPLAY	WALL	SEE PLANS
	VIDEO PROJECTOR		REFER TO PLANS
	CEILING SPEAKER: LOCAL SOUND SYSTEM		
	CEILING SPEAKER: INTERCOM SYSTEM	CEILING	FLUSH
	J-HOOK ROUTING PATH		
	CEILING VOICE/ DATA		
	WIRELESS ACCESS POINT	ABOVE CEILING	SEE PLANS
	CODE SIZE JUNCTION BOX		

SECURITY		MOUNTING	
SYMBOL	DESCRIPTION	LOC.	HIT.
	CARD READER		
	KEY PAD	WALL	+44" UON
	KEY SWITCH		
	WALL MOUNTED MOTION DETECTOR	WALL	+84" UON
	SECURITY CAMERA (BOX, FIXED)		
	SECURITY CAMERA (DOME, FIXED OR PTZ)		
	SECURITY CAMERA 180°	VARIES	SEE PLANS
	SECURITY CAMERA 360°		
	GLASS BREAK DETECTOR	WINDOW	SEE PLANS
	CEILING MOTION DETECTOR	CEILING	SEE PLANS
	DOOR CONTACT		
	DOOR SWITCH		
	ELECTRIC STRIKE	DOOR	SEE PLANS
	LOCK DOWN		
	MAGNETIC LOCK		

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

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ELECTRICAL LEGEND

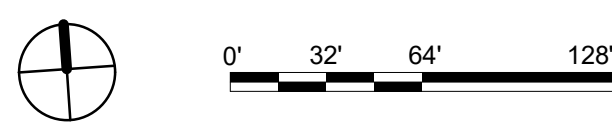
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E-001

Sequence of

Bridgers & Paxton Project No. 8286 3/18/2022 3:43:46 PM BIM 360://Church Rock Phase I Factory/8286 MEP_Church Rock Factory.rvt

B1 ELECTRICAL SITE PLAN
1" = 50'-0"



GENERAL NOTES

- A. EXTERIOR AND BUILDING MOUNTED LIGHTS TO BE CONTROLLED FROM ASTRONOMICAL TIMECLOCK AND LOW VOLTAGE CONTROL PHOTOCELL. RUN EXTERIOR LIGHTING CIRCUIT(S) THROUGH LIGHTING CONTROL RELAY PANEL. SET CONTROL PANEL(LCP) TO TURN EXTERIOR LIGHTS ON WHEN NATURAL AMBIENT LIGHT LEVELS FALL BELOW 650 FOOTCANDLES.
- B. REFER TO PICTURE SCHEDULE SHEET E-701. ADDITIONAL INFORMATION. REFER TO SHEET SERIES "EP" FOR ELECTRICAL ROOM EQUIPMENT LAYOUTS AND EQUIPMENT SIZES.
- C. REFER TO SHEET E-801 FOR ELECTRICAL EQUIPMENT, CONDUIT SIZE AND ADDITIONAL INFORMATION ON ELECTRICAL DISTRIBUTION SYSTEM.
- E. REFER TO SHEET SERIES "IT" FOR MDF AND IDF ROOMS, EQUIPMENT LAYOUTS AND EQUIPMENT SIZES.
- F. REFER TO SHEET SERIES "C" FOR OTHER NEW AND EXISTING UTILITIES. COORDINATE THE INSTALLATION OF ANY UTILITIES SHOWN ON THIS SHEET PRIOR TO COMMENCEMENT OF ANY WORK FOR BEST LOCATION OF THESE UTILITIES.
- G. COORDINATE WITH CIVIL AND LANDSCAPE SHEETS PRIOR TO PLACEMENT OF SITE LUMINAIRE POLES. EACH POLE CAN BE ADJUSTED TO AVOID OBSTRUCTIONS, BUT ONLY UP TO 1'-0" MOVEMENT IN ANY DIRECTION. PROVIDE A 6" GAP BETWEEN EDGE OF SIDEWALK OR CURBS TO POLE BASE.
- H. REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION AND EXACT LOCATIONS OF UNDER-SLAB, IN-SLAB AND THROUGH-SLAB FOR FOUNDATION MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, BOXES, FIXTURES, ETC. IF SUCH INFORMATION IS NOT AVAILABLE, DO NOT PROCEED WITH WORK UNTIL PROPER DIRECTION IS PROVIDED.
- I. ALL EXTERIOR PAD MOUNTED ELECTRICAL EQUIPMENT MUST BE LOCATED SUCH THAT GRADE WILL DRAIN WATER AWAY FROM THE EQUIPMENT PAD.
- J. CONCRETE PADS FOR PAD MOUNTED SWITCHES, TRANSFORMERS AND SWITCHGEAR ARE TO BE SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. ALL PADS ARE TO BE CAST-IN-PLACE REINFORCED CONCRETE.
- K. ALL CONDUIT STUB-UP LOCATIONS ARE TO BE COORDINATED WITH THE EQUIPMENT MANUFACTURER.
- L. POLE MOUNT SITE LIGHTING TO HAVE 30" CONCRETE BASE IN PARKING/PAVING AREAS. POLE MOUNT LIGHTS IN LANDSCAPE AND NON-PARKING AREAS TO HAVE FLUSH MOUNT BASE PLATE. COORDINATE WITH MANUFACTURER AND OWNER.
- M. REFER TO SPECIFICATION SECTION 26 4113 FOR LIGHTNING PROTECTION SYSTEM.
- N. LUMINAIRES IN HALF TONE TO BE INCLUDED IN PHASE III.

SHEET KEYNOTES

1. PRIMARY FEEDER BY COG UTILITY. SEE ONE LINE E-601.
2. SECONDARY FEEDER - SEE ONE LINE E-601.
3. UG CONDUITS TO COMMUNICATIONS PROVIDER(CENTURY LINK). COORDINATE ROUTING WITH ALL OTHER UTILITIES BEFORE TRENCHING. COORDINATE WITH OWNER AND COMMUNICATIONS PROVIDER.
4. 3-40" #4G. IN 2-1/2" C. TO FUTURE ELECTRIC ROOM. STUB CONDUIT PER OWNER'S DIRECTION.
5. DOMESTIC WATER HOT BOX SERVICE ENTRANCE LOCATION. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER AND VENDOR PRIOR TO ROUGH IN. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
6. PHASE II BUILDING MOUNT LIGHTING TYPICAL.
7. PHASE III SITE/ROADWAY LIGHTING TYPICAL.
8. PHASE II SITE/ROADWAY LIGHTING TYPICAL.

CHURCH ROCK PHASE II FACTORY

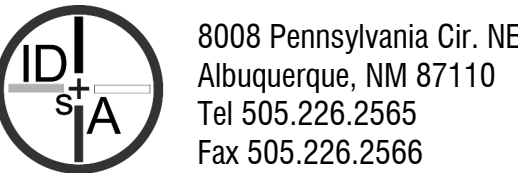
CHURCH ROCK, NEW MEXICO

50% CONSTRUCTION DOCUMENTS

FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



8008 Pennsylvania Cir. NE
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CONSULTANT INFO & LOGO



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SHEET TITLE

ELECTRICAL SITE
PLAN

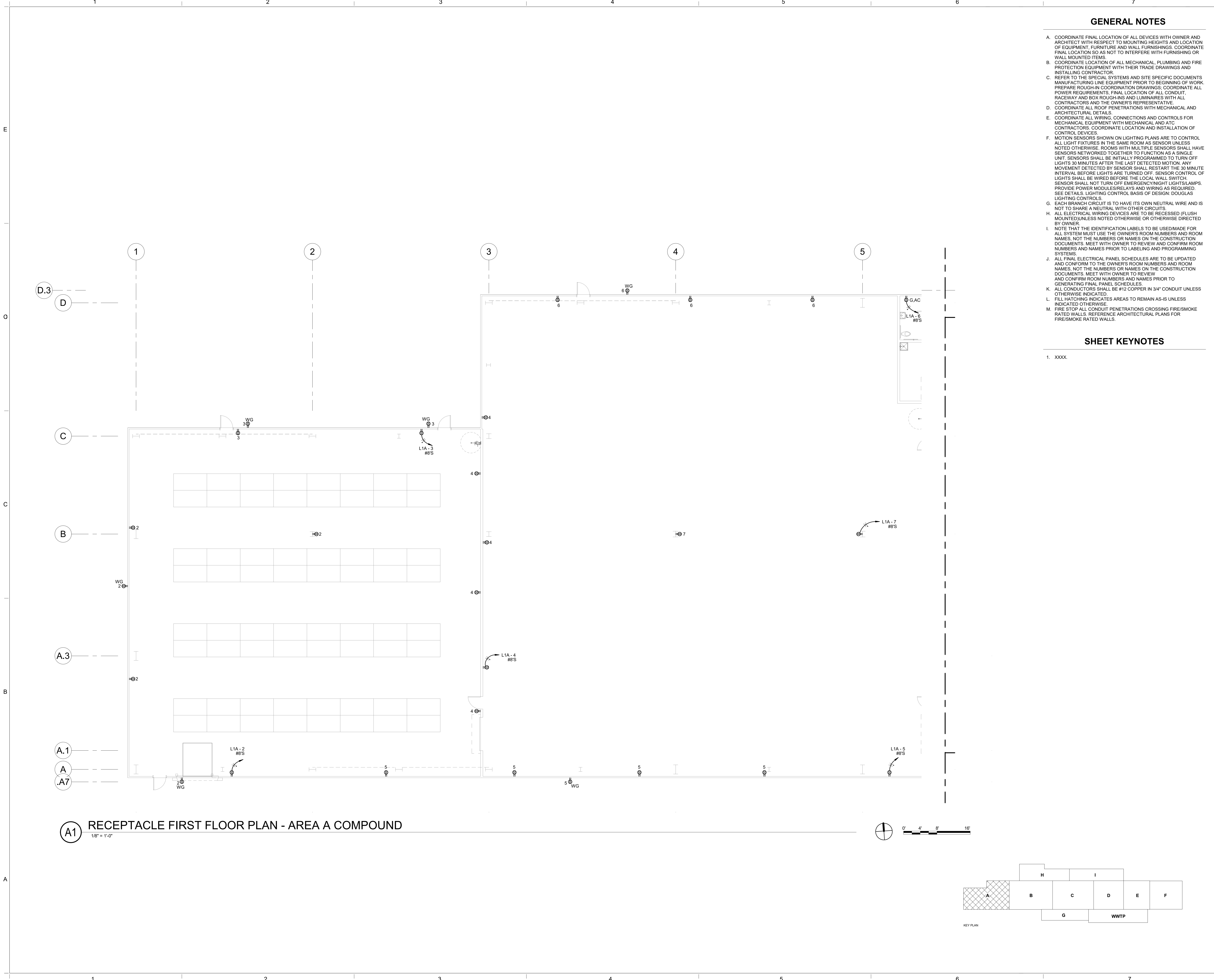
SHEET NUMBER

ES101

Sequence of

3/18/2022 3:43:46 PM

Bridgers & Paxton Project No. 8286 3/18/2022 3:43:06 PM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt



(A1) RECEPTACLE FIRST FLOOR PLAN - AREA A COMPOUND
1/8" = 1'-0"

GENERAL NOTES

- A. COORDINATE FINAL LOCATION OF ALL DEVICES WITH OWNER AND ARCHITECT WITH RESPECT TO MOUNTING HEIGHTS AND LOCATION OF EQUIPMENT, FURNITURE AND WALL FURNISHINGS. COORDINATE FINAL LOCATION SO AS NOT TO INTERFERE WITH FURNISHING OR WALL MOUNTED ITEMS.
- B. COORDINATE LOCATION OF ALL MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT WITH THEIR TRADE DRAWINGS AND INSTALLING CONTRACTOR.
- C. REFER TO THE SPECIAL SYSTEMS AND SITE SPECIFIC DOCUMENTS MANUFACTURING LINE EQUIPMENT PRIOR TO BEGINNING OF WORK. PREPARE ROUGH-IN COORDINATION DRAWINGS; COORDINATE ALL POWER REQUIREMENTS, FINAL LOCATION OF ALL CONDUIT, RACEWAY AND BOX ROUGH-INS AND LUMINAIRES WITH ALL CONTRACTORS AND THE OWNER'S REPRESENTATIVE.
- D. COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DETAILS.
- E. COORDINATE ALL WIRING, CONNECTIONS AND CONTROLS FOR MECHANICAL EQUIPMENT WITH MECHANICAL AND ATC CONTRACTORS. COORDINATE LOCATION AND INSTALLATION OF CONTROL DEVICES.
- F. MOTION SENSORS SHOWN ON LIGHTING PLANS ARE TO CONTROL ALL LIGHT FIXTURES IN THE SAME ROOM AS SENSOR UNLESS NOTED OTHERWISE. ROOMS WITH MULTIPLE SENSORS SHALL HAVE SENSORS NETWORKED TOGETHER TO FUNCTION AS A SINGLE UNIT. SENSORS SHALL BE INITIALLY PROGRAMMED TO TURN OFF LIGHTS 30 MINUTES AFTER THE LAST DETECTED MOTION. ANY MOVEMENT DETECTED BY SENSOR SHALL RESTART THE 30 MINUTE INTERVAL BEFORE LIGHTS ARE TURNED OFF. SENSOR CONTROL OF LIGHTS SHALL BE WIRED BEFORE THE LOCAL WALL SWITCH. SENSOR SHALL NOT TURN OFF EMERGENCY NIGHT LIGHTS/LAMPS. PROVIDE POWER MODULES/RELAYS AND WIRING AS REQUIRED. SEE DETAILS. LIGHTING CONTROL BASIS OF DESIGN: DOUGLAS LIGHTING CONTROLS.
- G. EACH BRANCH CIRCUIT IS TO HAVE ITS OWN NEUTRAL WIRE AND IS NOT TO SHARE A NEUTRAL WITH OTHER CIRCUITS.
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- K. ALL CONDUCTORS SHALL BE #12 COPPER IN 3/4" CONDUIT UNLESS OTHERWISE INDICATED.
- L. FILL HATCHING INDICATES AREAS TO REMAIN AS-IS UNLESS INDICATED OTHERWISE.
- M. FIRE STOP ALL CONDUIT PENETRATIONS CROSSING FIRE/SMOKE RATED WALLS. REFERENCE ARCHITECTURAL PLANS FOR FIRE/SMOKE RATED WALLS.

SHEET KEYNOTES

- 1. XXXX.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC
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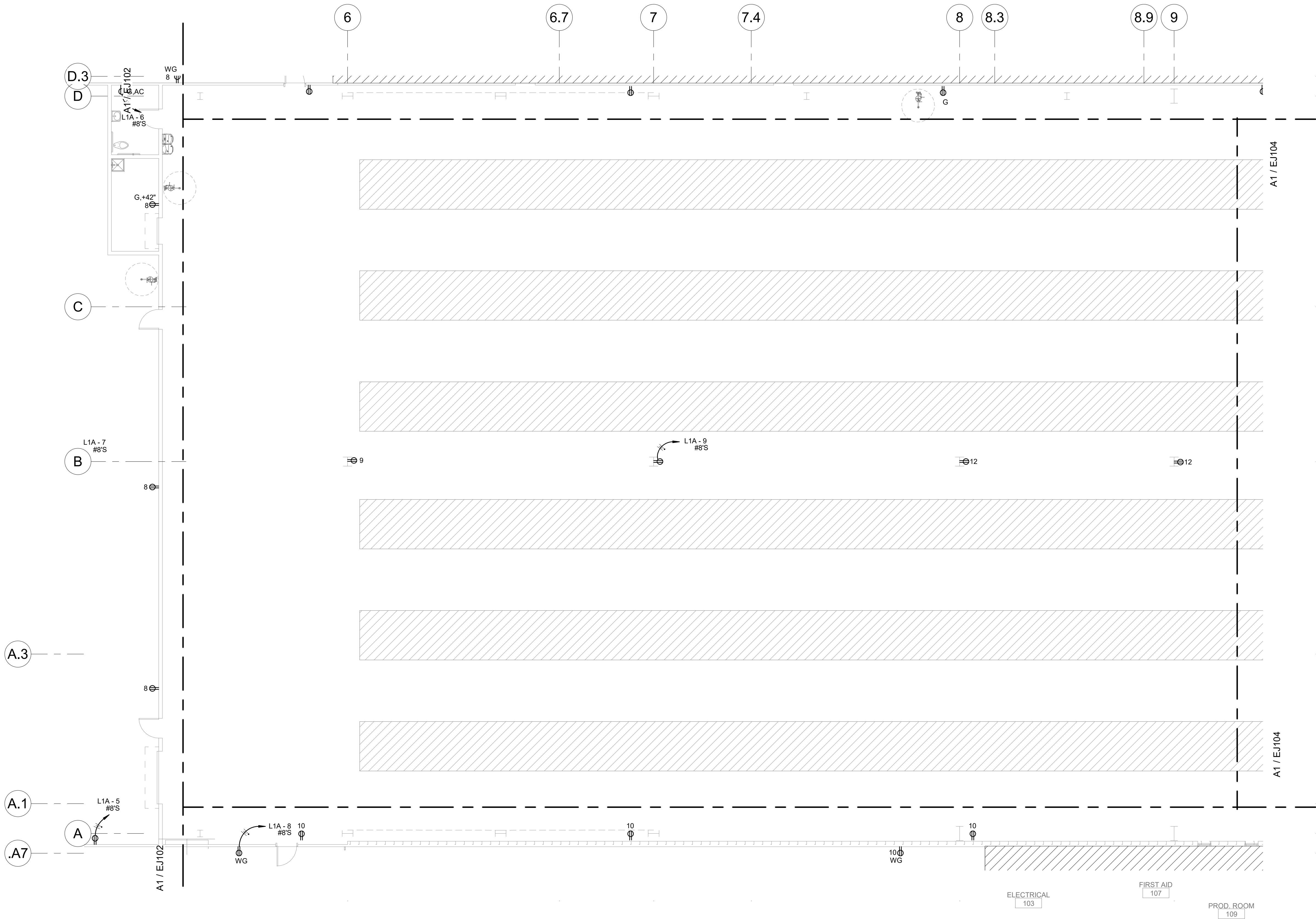
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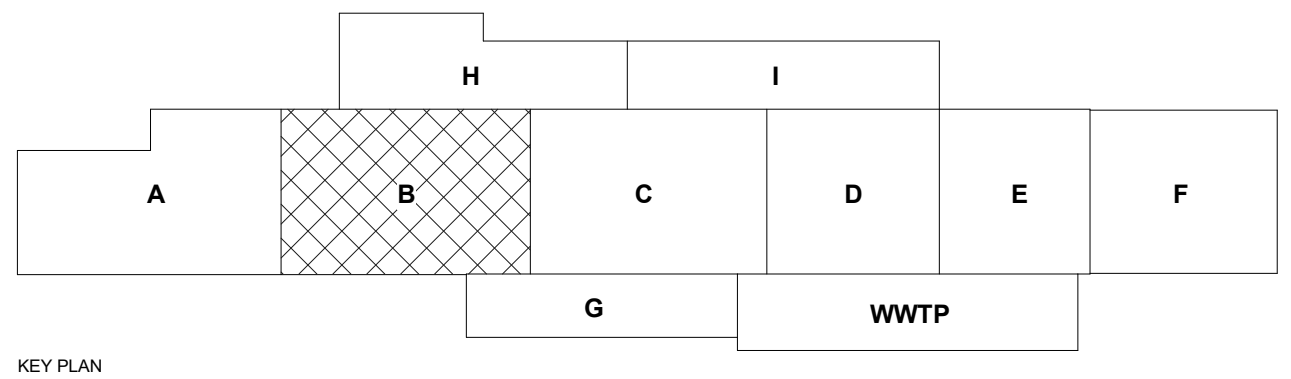
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SHEET TITLE
RECEPTACLE FLOOR PLAN - AREA A COMP.

SHEET NUMBER
EJ102
Sequence of



(A1) RECEPTACLE FIRST FLOOR PLAN - AREA B FACTORY
1/8" = 1'-0"



GENERAL NOTES

- COORDINATE FINAL LOCATION OF ALL DEVICES WITH OWNER AND ARCHITECT WITH RESPECT TO MOUNTING HEIGHTS AND LOCATION OF EQUIPMENT, FURNITURE AND WALL FURNISHINGS. COORDINATE FINAL LOCATION SO AS NOT TO INTERFERE WITH FURNISHING OR WALL MOUNTED ITEMS.
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SHEET KEYNOTES

- XXXX.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
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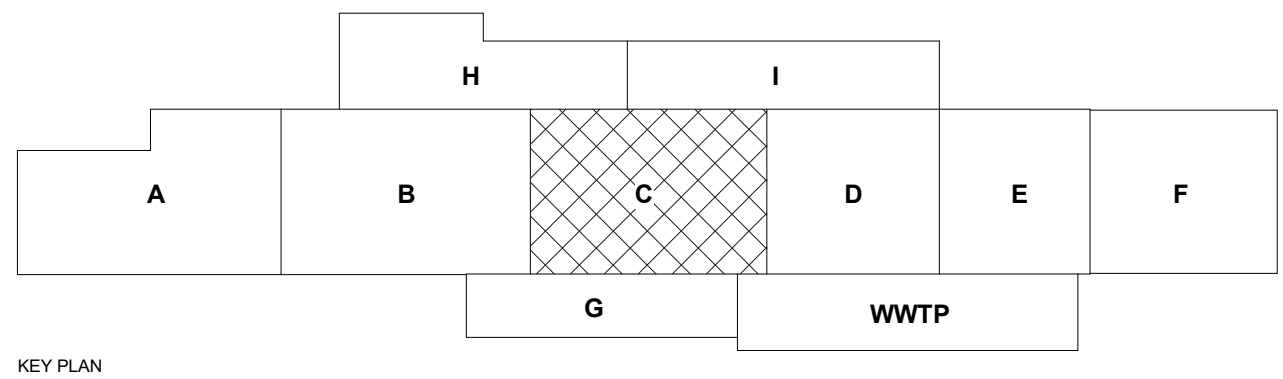
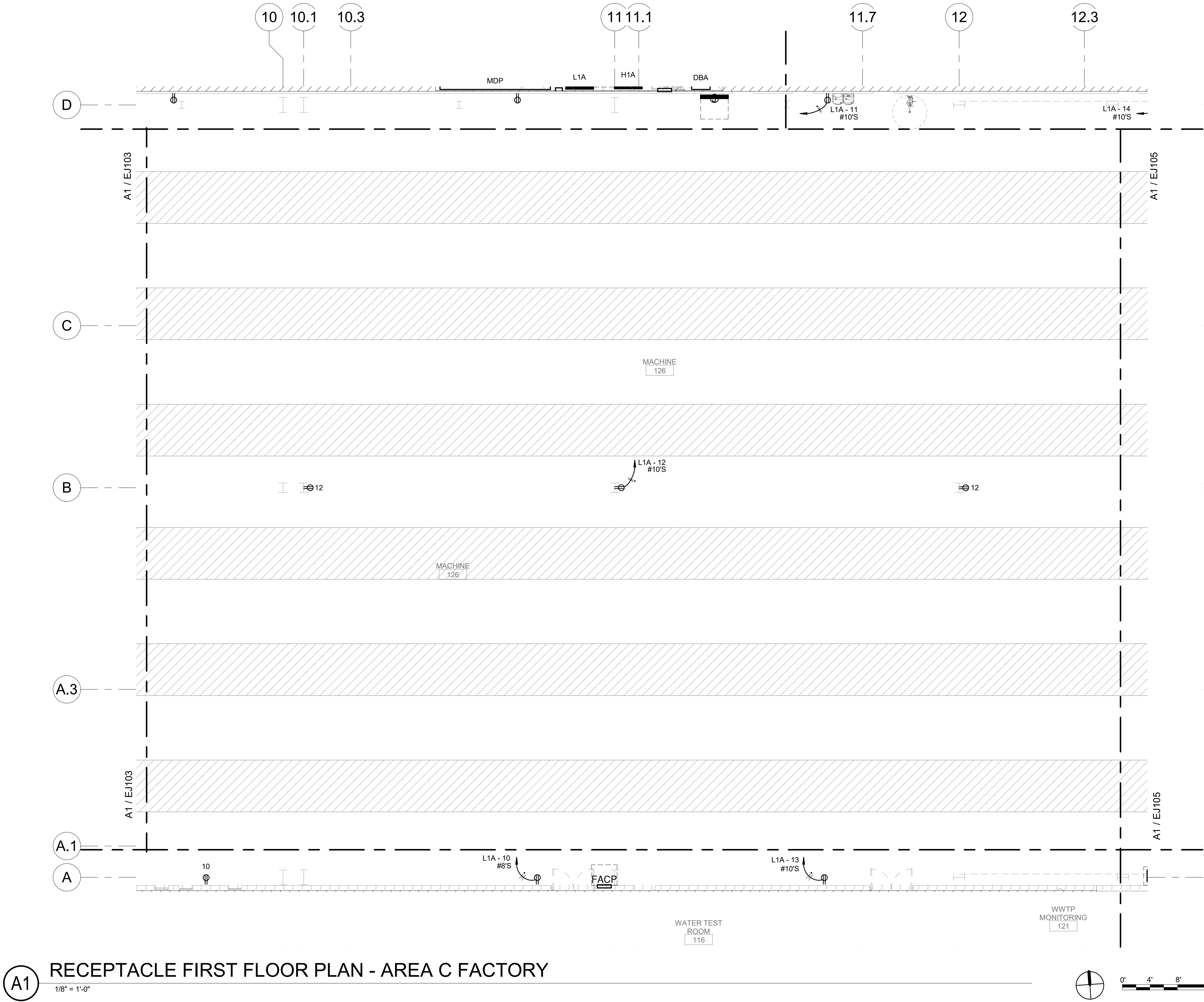
**RECEPTACLE
FLOOR PLAN -
AREA B FACTORY**

SHEET NUMBER

EJ103

Sequence of

Bridgers & Paxton Project No. 8286 3/18/2022 3:43:09 PM BIM 360://Church Rock Phase II Factory/8286_MEP_Church Rock Factory.rvt



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SHEET KEYNOTES

- XXXX.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

50% CONSTRUCTION DOCUMENTS

FEBRUARY 16, 2022

OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC



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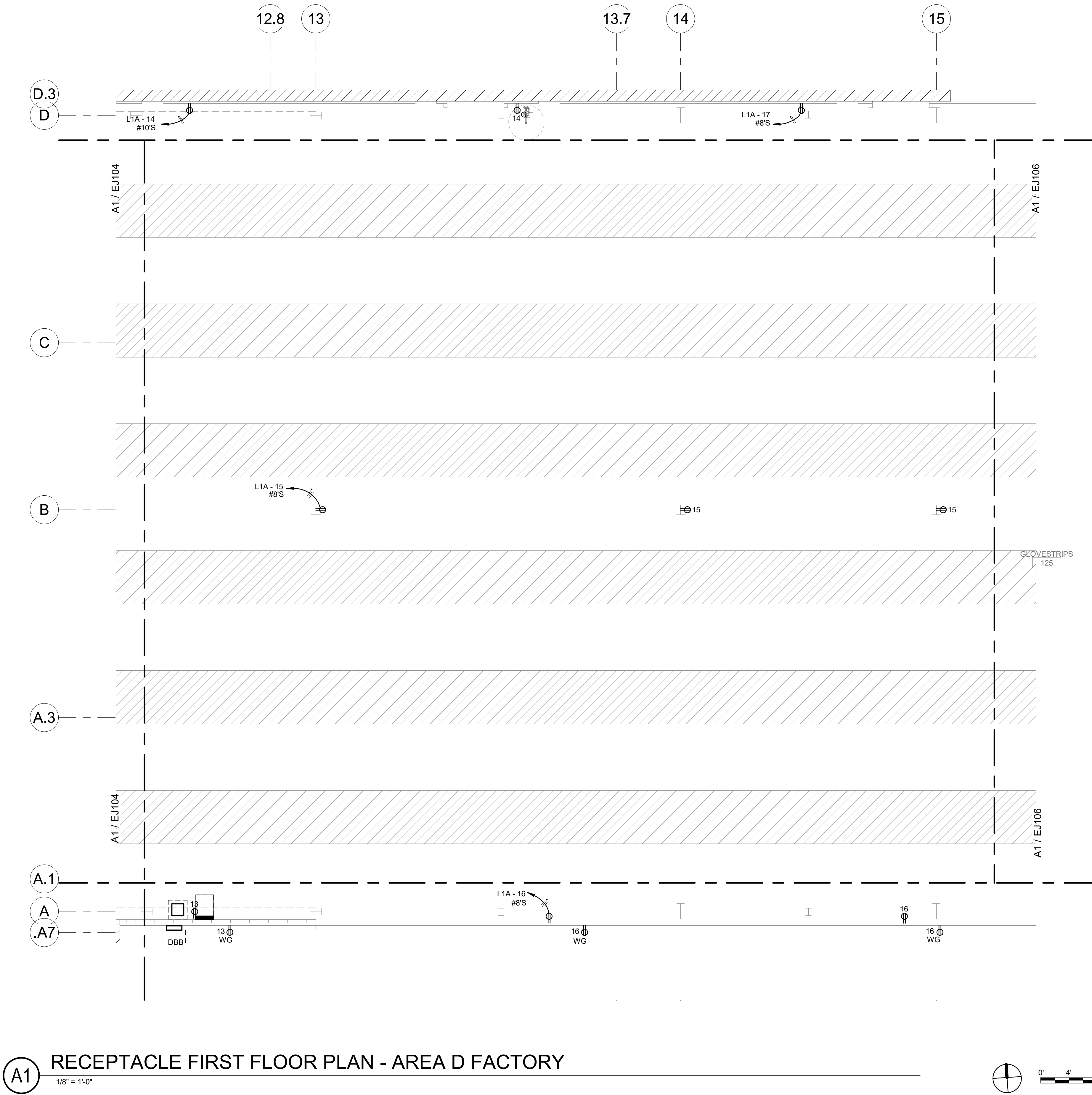
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RECEPTACLE
FLOOR PLAN -
AREA C FACTORY

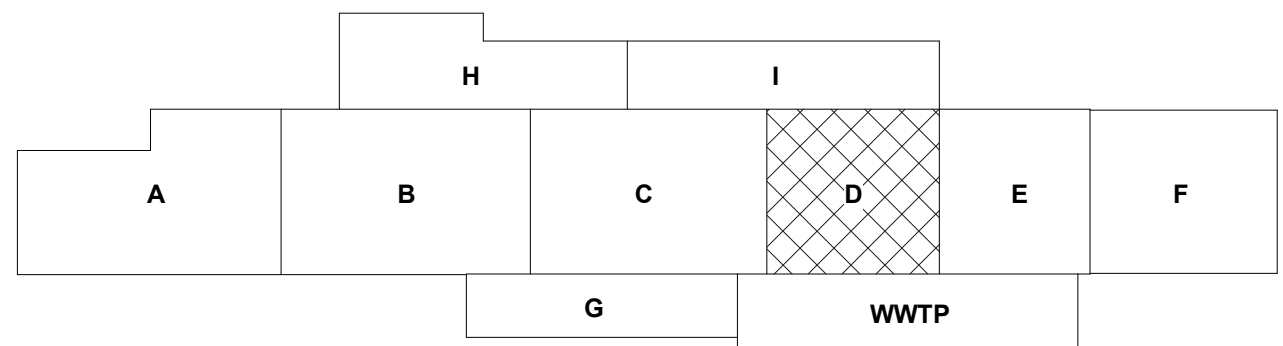
SHEET NUMBER

EJ104

Sequence of



(A1) RECEPTACLE FIRST FLOOR PLAN - AREA D FACTORY
1/8" = 1'-0"



GENERAL NOTES

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SHEET KEYNOTES

- XXXX.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
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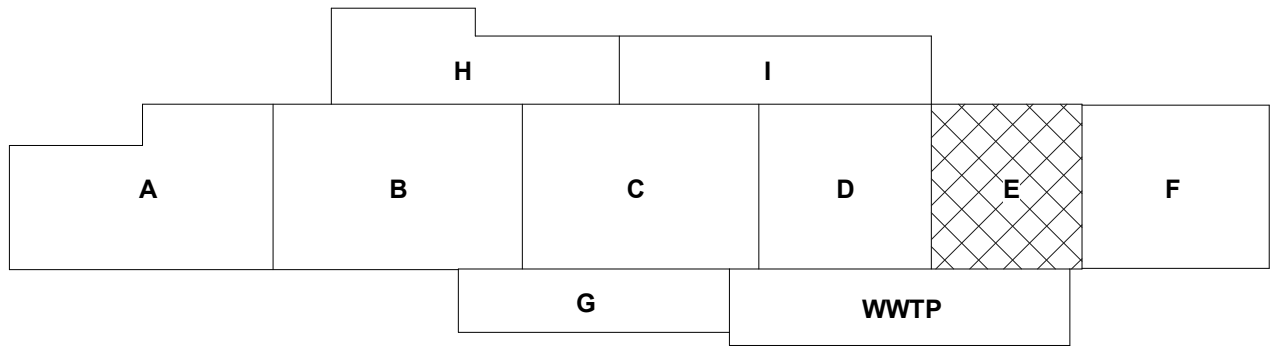
SHEET TITLE

**RECEPTACLE
FLOOR PLAN -
AREA D FACTORY**

SHEET NUMBER

EJ105

Sequence of



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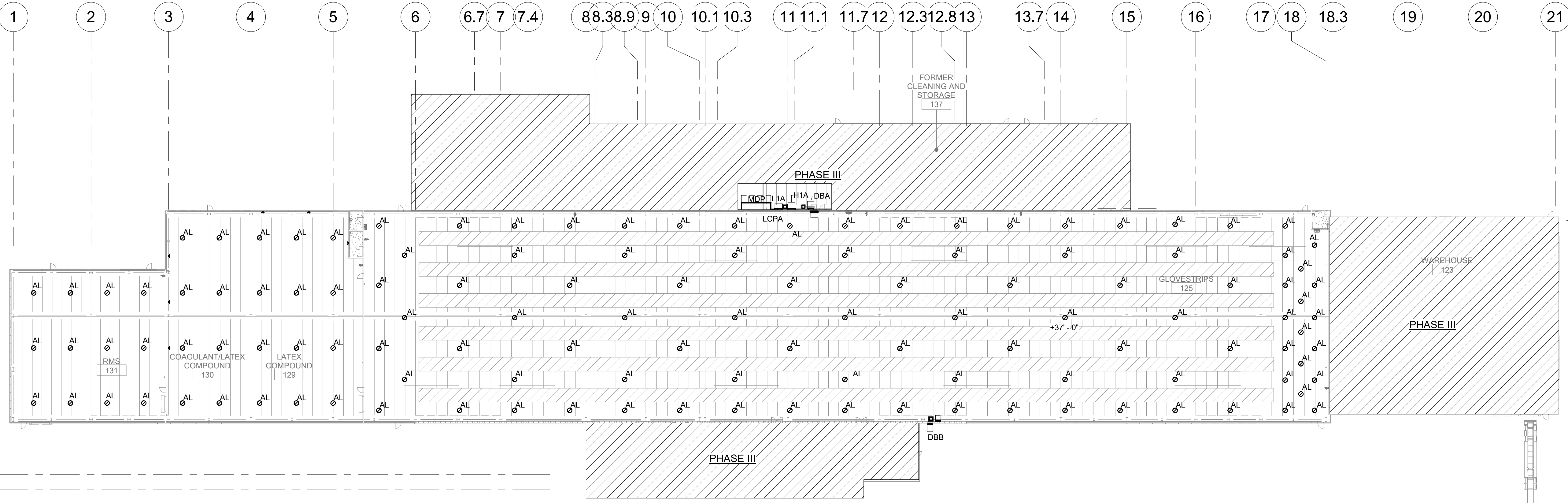
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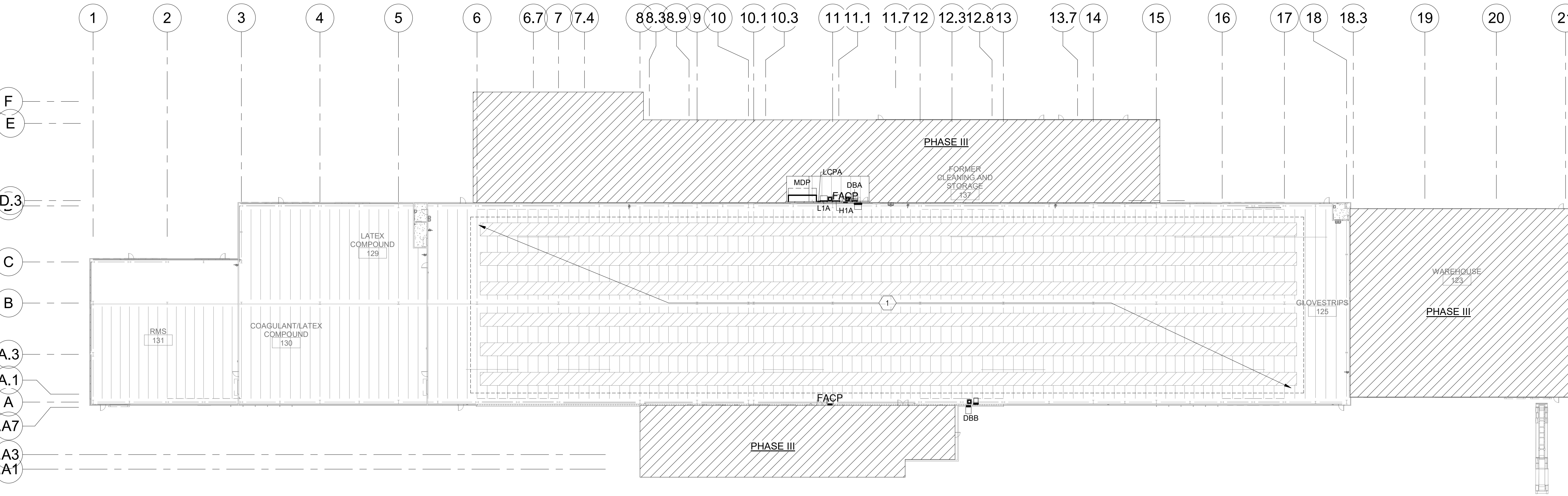
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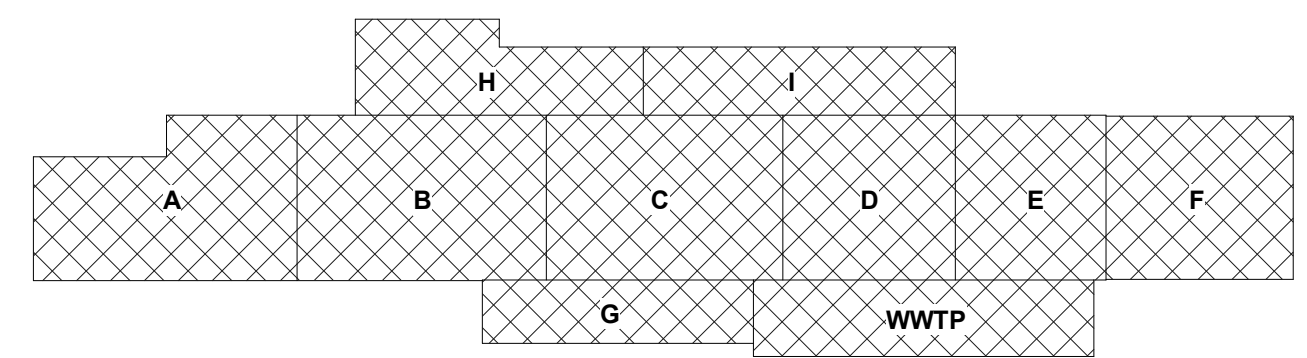
A2 LIGHTING FIRST FLOOR PLAN - HIGH BAY

1/32" = 1'-0"



A1 LIGHTING TYPICAL FLOOR PLAN - PRODUCTION LINES - ALL LEVELS

SCALE: 1/32" = 1'-0"



KEY PLAN

GENERAL NOTES

- COORDINATE FINAL LOCATION OF ALL DEVICES WITH OWNER AND ARCHITECT WITH RESPECT TO MOUNTING HEIGHTS AND LOCATION OF EQUIPMENT, FURNITURE AND WALL FURNISHINGS. COORDINATE FINAL LOCATION SO AS NOT TO INTERFERE WITH FURNISHING OR WALL MOUNTED ITEMS.
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- COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DETAILS.
- COORDINATE ALL WIRING CONNECTIONS AND CONTROLS FOR MECHANICAL EQUIPMENT WITH MECHANICAL AND ATC CONTRACTORS. COORDINATE LOCATION AND INSTALLATION OF CONTROL DEVICES.
- MOTION SENSORS SHOWN ON LIGHTING PLANS ARE TO CONTROL ALL LIGHT FIXTURES IN THE SAME ROOM AS SENSOR UNLESS NOTED OTHERWISE. ROOMS WITH MULTIPLE SENSORS SHALL HAVE SENSORS NETWORKED TOGETHER TO FUNCTION AS A SINGLE UNIT. SENSORS SHALL BE INITIALLY PROGRAMMED TO TURN OFF LIGHTS 30 MINUTES AFTER THE LAST DETECTED MOTION. ANY MOVEMENT DETECTED BY SENSOR SHALL RESTART THE 30 MINUTE INTERVAL BEFORE LIGHTS ARE TURNED OFF. SENSOR CONTROL OF LIGHTS SHALL BE WIRED BEFORE THE LOCAL WALL SWITCH. SENSOR SHALL NOT TURN OFF EMERGENCY NIGHT LIGHTS/LAMPS. PROVIDE POWER MODULES/RELAYS AND WIRING AS REQUIRED. SEE DETAILS. LIGHTING CONTROL BASIS OF DESIGN: DOUGLAS LIGHTING CONTROLS.
- EACH BRANCH CIRCUIT IS TO HAVE ITS OWN NEUTRAL WIRE AND IS NOT TO SHARE A NEUTRAL WITH OTHER CIRCUITS.
- ALL ELECTRICAL WIRING DEVICES ARE TO BE RECESSED (FLUSH MOUNTED) UNLESS NOTED OTHERWISE OR OTHERWISE DIRECTED BY OWNER.
- NOTE THAT THE IDENTIFICATION LABELS TO BE USED/MADE FOR ALL SYSTEM MUST USE THE OWNER'S ROOM NUMBERS AND ROOM NAMES, NOT THE NUMBERS OR NAMES ON THE CONSTRUCTION DOCUMENTS. MEET WITH OWNER TO REVIEW AND CONFIRM ROOM NUMBERS AND NAMES PRIOR TO LABELING AND PROGRAMMING SYSTEMS.
- ALL FINAL ELECTRICAL PANEL SCHEDULES ARE TO BE UPDATED AND CONFORM TO THE OWNER'S ROOM NUMBERS AND ROOM NAMES, NOT THE NUMBERS OR NAMES ON THE CONSTRUCTION DOCUMENTS. MEET WITH OWNER TO REVIEW AND CONFIRM ROOM NUMBERS AND NAMES PRIOR TO GENERATING FINAL PANEL SCHEDULES.
- ALL CONDUCTORS SHALL BE #12 COPPER IN 3/4" CONDUIT UNLESS OTHERWISE INDICATED.
- FILL HATCHING INDICATES AREAS TO REMAIN AS-IS UNLESS INDICATED OTHERWISE.
- FIRE STOP ALL CONDUIT PENETRATIONS CROSSING FIRE/SMOKE RATED WALLS. REFERENCE ARCHITECTURAL PLANS FOR FIRE/SMOKE RATED WALLS.

LIGHTING SEQUENCE OF OPERATION

- LED LUMINAIRE DRIVERS ARE TO BE 0-10V DIMMING AS INDICATED IN THE LUMINAIRE SCHEDULE.
- CORRIDORS: LUMINAIRES WILL BE CONTROLLED BY AN ASTRONOMICAL TIME SCHEDULE. DRIVER OUTPUT IS TO BE 100% BETWEEN SUNRISE AND SUNSET. COORDINATE ALL MOMENTARY OVERRIDE SWITCH LOCATION(S) WITH OWNER. ALL LIFE SAFETY LIGHT FIXTURES TO USE A UL924 DEVICE COMPATIBLE WITH 0-10V DIMMING. USE LVS #EPC-1-D OR EQUAL. RUN LOW VOLTAGE CONTROL WIRES BACK TO LCP.
- OFFICES: MANUAL WALL BOX 0-10V DIMMER STATIONS WITH INTEGRATED PASSIVE INFRARED VACANCY SENSORS ARE TO BE GREENGATE #OSW-P-010 OR EQUAL. SET SWITCH TO MANUAL ON/AUTO OFF. SET SENSOR TIME OUT AFTER 15 MINUTES OF NO MOTION.
- INDIVIDUAL TOILET ROOMS: WALL BOX PASSIVE INFRARED OCCUPANCY SENSORS ARE TO BE DOUGLAS #WOSDD2-D/PRVW OR EQUAL. SET SWITCH TO MANUAL ON/AUTO OFF AND TO TIME OUT AFTER 15 MINUTES OF NO MOTION.
- MULTIPLE TOILET R/OOKEER SPACES: CEILING MOUNTED DUAL TECHNOLOGY (PASSIVE INFRARED/ADI-VOICE TECHNOLOGY) OCCUPANCY SENSORS DOUGLAS # WOSDD1-R-N AND WP-PP20-D POWER PACK OR EQUAL. SET SENSOR TO AUTO ON/AUTO OFF. PROVIDE MASTER SWITCH FOR ON/OFF CONTROL WHERE INDICATED ON DRAWINGS.
- STORAGE AND SUPPORT SPACES: EITHER CEILING MOUNTED DUAL TECHNOLOGY (PASSIVE INFRARED/ADI-VOICE TECHNOLOGY) OCCUPANCY SENSORS DOUGLAS # WOSDD1-R-N OR WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR DOUGLAS # WOSDD2-PRVW AND WP-PP20-D POWER PACK OR EQUAL. SET SENSOR TO AUTO ON/AUTO OFF. PROVIDE MOMENTARY OVERRIDE SWITCH FOR ON/OFF CONTROL WHERE INDICATED ON DRAWINGS.
- MAIN LOBBY: AUTOMATIC DIMMING TO OFF FOR DAYLIGHT HARVESTING CONTROL WITH PHOTOCELL DOUGLAS #WPP-INT-1A OR EQUAL. PROVIDE DOUGLAS 4 RELAY ROOM CONTROLLER #WRC-3160 OR EQUAL. FOR 4 ZONES OF CONTROL. ALL LIFE SAFETY FIXTURES TO USE A UL924 DEVICE COMPATIBLE WITH 0-10V DIMMING. USE EMERGENCY EXPANSION FOR ROOM CONTROLLER # WUL-3924 OR EQUAL.
- CONFERENCE ROOMS: PROVIDE DOUGLAS ROOM CONTROLLER #WRC-3260 OR EQUAL FOR LOCAL CONTROL OF ALL ZONES. PROVIDE WALL-MOUNTED DIMMABLE SWITCH #WRD-8701 OR EQUAL FOR DIMMING/SWITCHING OF ALL ZONES. ALL LIFE SAFETY FIXTURES TO USE A UL924 DEVICE COMPATIBLE WITH 0-10V DIMMING. USE EMERGENCY EXPANSION ON ROOM CONTROLLER # WUL-3924 OR EQUAL.
- EXTERIOR AND BUILDING MOUNTED LIGHTS TO BE CONTROLLED FROM ASTRONOMICAL TIMECLOCK AND LOW VOLTAGE CONTROL PHOTOCELL. RUN EXTERIOR LIGHTING CIRCUIT(S) THROUGH LIGHTING CONTROL RELAY PANEL. SET CONTROL PANEL TO TURN EXTERIOR LIGHTS ON WHEN NATURAL AMBIENT LIGHT LEVELS FALL BELOW 650 FOOTCANDLES.
- PRODUCTION/MANUFACTURING FLOOR/WAREHOUSE: LUMINAIRES WILL BE CONTROLLED BY AN ASTRONOMICAL TIME SCHEDULE. COORDINATE CYCLING ON/OFF TIMES WITH OWNER. COORDINATE ALL MOMENTARY OVERRIDE SWITCH LOCATION(S) WITH OWNER. ALL EMERGENCY/LIFE-SAFETY LIGHT FIXTURES TO USE A UL924 DEVICE COMPATIBLE WITH 0-10V DIMMING. USE LVS #EPC-1-D OR EQUAL. RUN LOW VOLTAGE CONTROL WIRES BACK TO LCP.

SHEET KEYNOTES

- LIGHTING IN PRODUCTION LINE EQUIPMENT BAYS TO BE PROVIDED BY RHINO HEALTH VENDOR. NOT IN CONTRACT. SEE SHEETS EL103-EL106 FOR CIRCUIT INFORMATION.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC

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PROJECT NUMBER: 2020.017
DRAWING FILE: 8286_MEP_Church Rock Factory
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SHEET TITLE

LIGHTING FLOOR PLAN

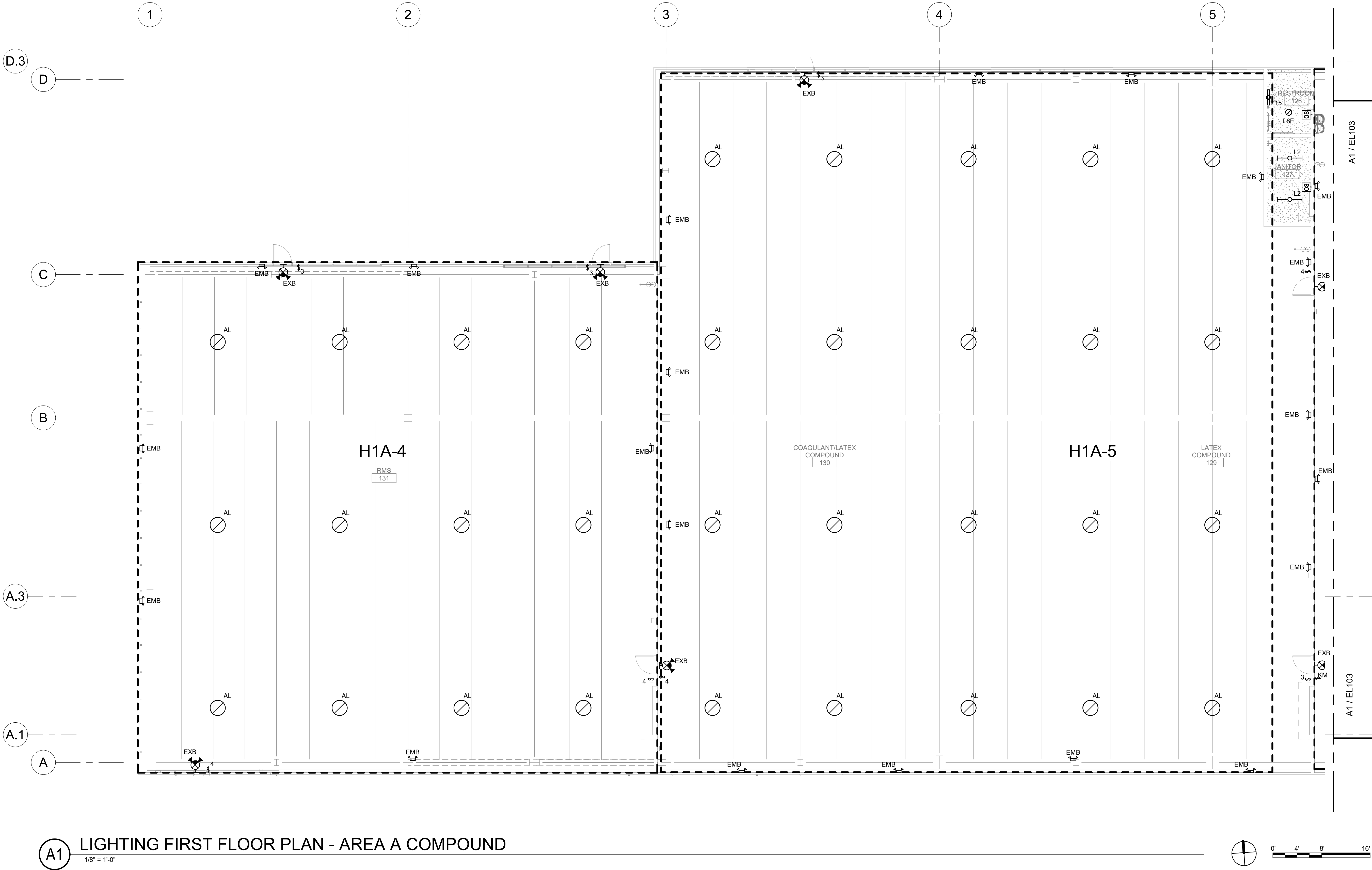
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A
B
C
D
E



A1 LIGHTING FIRST FLOOR PLAN - AREA A COMPOUND
1/8" = 1'-0"

GENERAL NOTES

- COORDINATE FINAL LOCATION OF ALL DEVICES WITH OWNER AND ARCHITECT WITH RESPECT TO MOUNTING HEIGHTS AND LOCATION OF EQUIPMENT, FURNITURE AND WALL FURNISHINGS. COORDINATE FINAL LOCATION SO AS NOT TO INTERFERE WITH FURNISHING OR WALL MOUNTED ITEMS.
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SHEET KEYNOTES

1. XXX

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CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC
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PROJECT NUMBER: 2020.017
DRAWING FILE: 8286_MEP_Church Rock Factory
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SHEET TITLE

LIGHTING FLOOR PLAN - AREA A COMP.

SHEET NUMBER

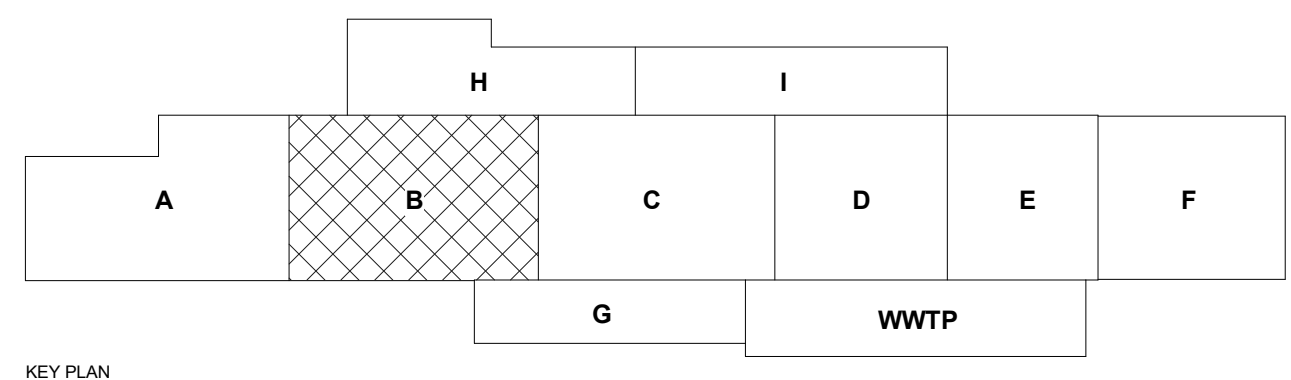
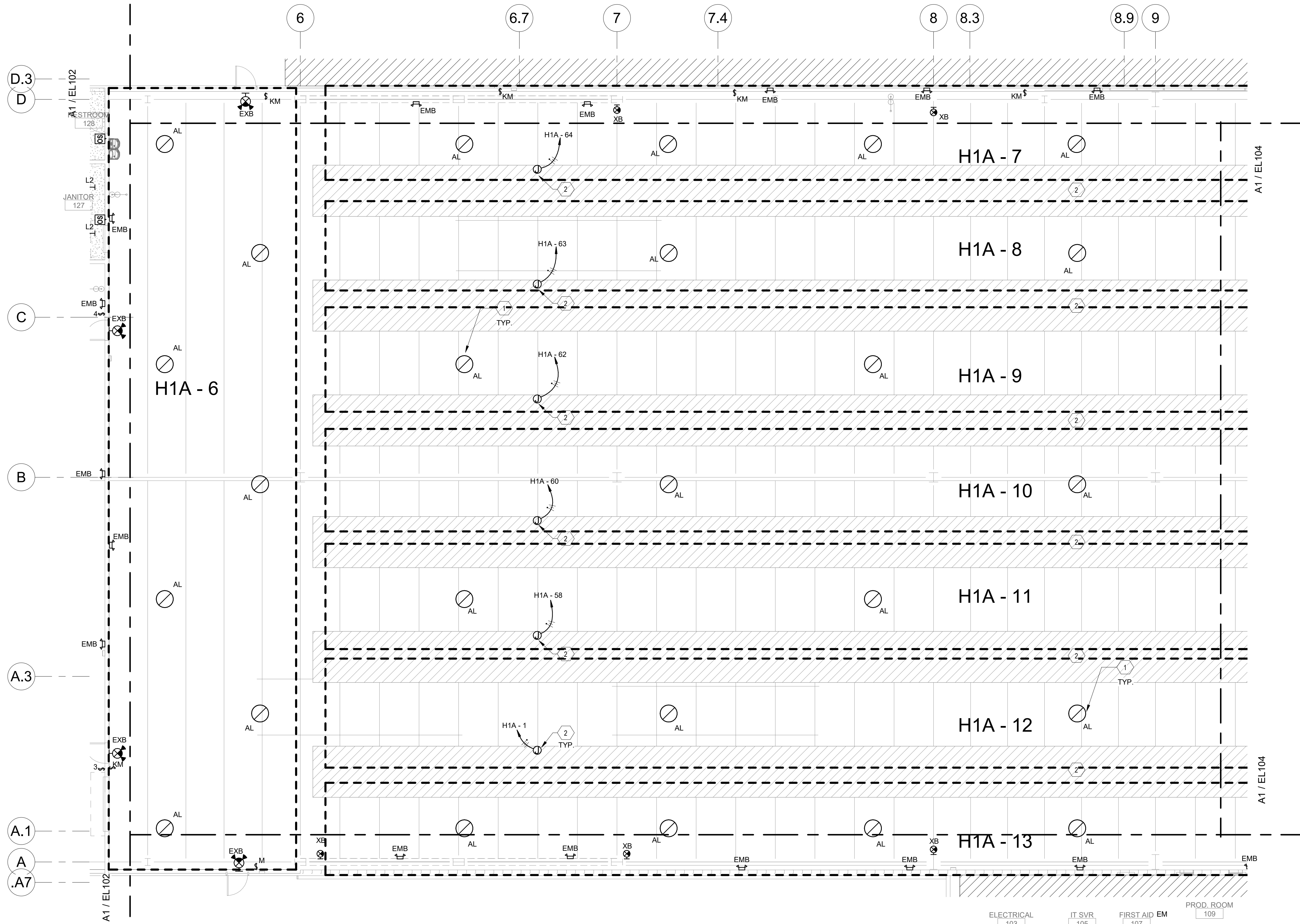
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Bridgers & Paxton Project No. 8286

A1 LIGHTING FIRST FLOOR PLAN - AREA B FACTORY

1/8" = 1'-0"



GENERAL NOTES

- COORDINATE FINAL LOCATION OF ALL DEVICES WITH OWNER AND ARCHITECT WITH RESPECT TO MOUNTING HEIGHTS AND LOCATION OF EQUIPMENT, FURNITURE AND WALL FURNISHINGS. COORDINATE FINAL LOCATION SO AS NOT TO INTERFERE WITH FURNISHING OR WALL MOUNTED ITEMS.
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SHEET KEYNOTES

- ALL HIGH BAY LUMINAIRE MOUNTED ABOVE MANUFACTURING LINES. SEE EL111 FOR MORE INFORMATION.
- LIGHTING IN PRODUCTION LINE EQUIPMENT BAYS TO BE PROVIDED BY RINGO HEALTH CARE, NOT IN CONTRACT. ROUTE CIRCUIT THROUGH LCP TERMINATE ON DESIGNATED PANEL UTILIZING SPARE 20A BREAKER.

LIGHTING SEQUENCE

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SHEET TITLE

**LIGHTING FLOOR
PLAN - AREA B
FACTORY**

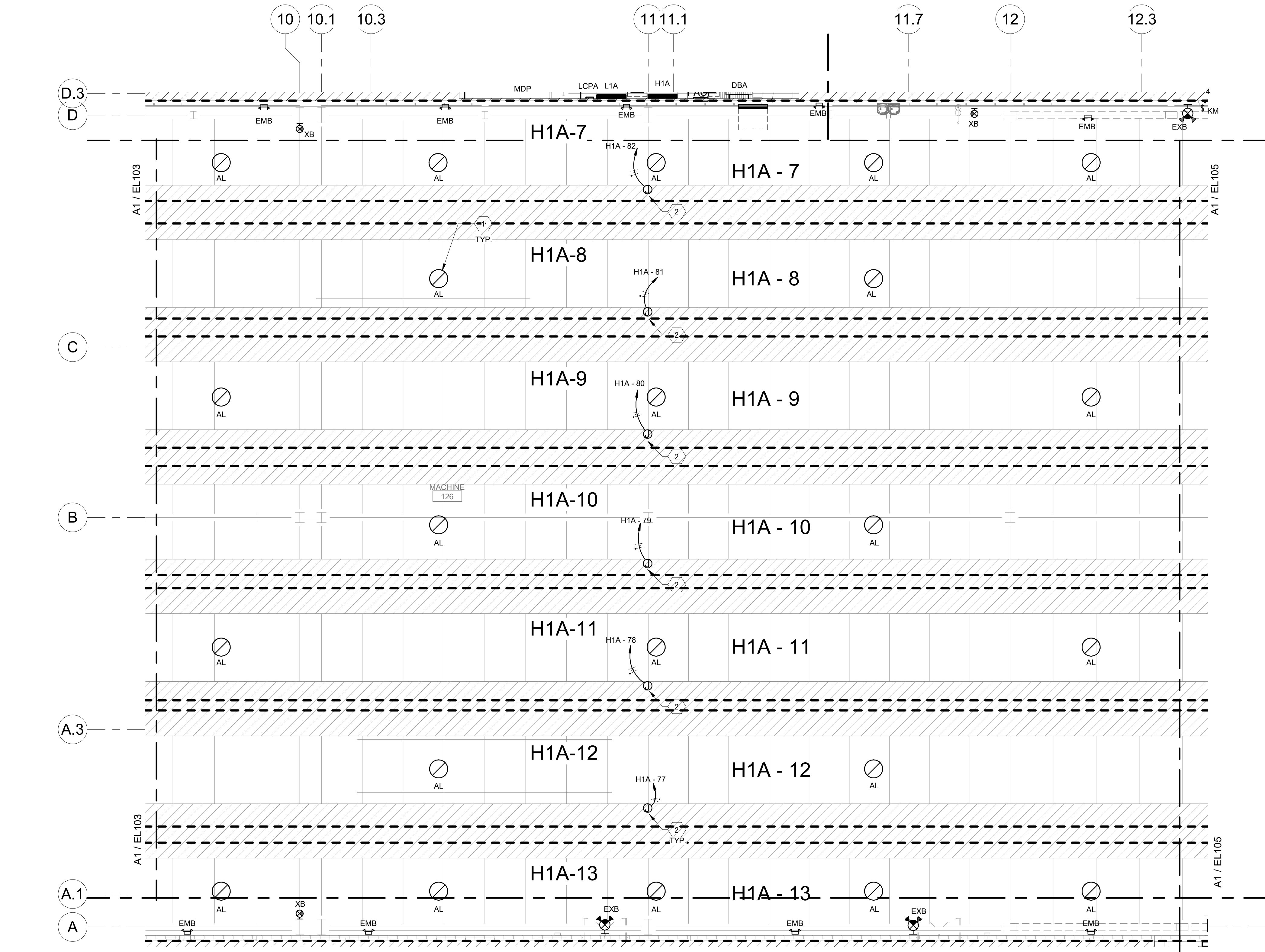
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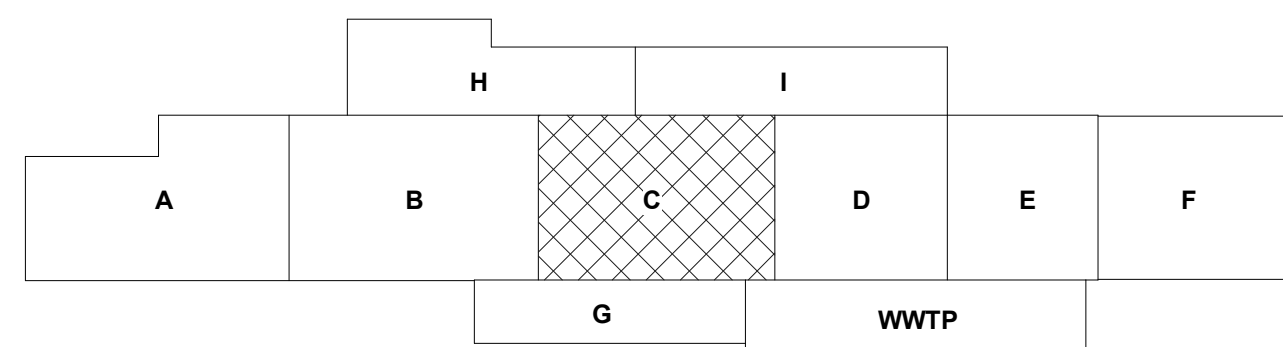
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Bridgers & Paxton Project No. 8286



A1 LIGHTING FIRST FLOOR PLAN - AREA C FACTORY
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- COORDINATE ALL ROOF PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DETAILS.
- COORDINATE ALL WIRING, CONNECTIONS AND CONTROLS FOR MECHANICAL EQUIPMENT WITH MECHANICAL AND ATC CONTRACTORS. COORDINATE LOCATION AND INSTALLATION OF CONTROL DEVICES.
- MOTION SENSORS SHOWN ON LIGHTING PLANS ARE TO CONTROL ALL LIGHT FIXTURES IN THE SAME ROOM AS SENSOR UNLESS NOTED OTHERWISE. ROOMS WITH MULTIPLE SENSORS SHALL HAVE SENSORS NETWORKED TOGETHER TO FUNCTION AS A SINGLE UNIT. SENSORS SHALL BE INITIALLY PROGRAMMED TO TURN OFF LIGHTS 30 MINUTES AFTER THE LAST DETECTED MOTION. ANY MOVEMENT DETECTED BY SENSOR SHALL RESTART THE 30 MINUTE INTERVAL BEFORE LIGHTS ARE TURNED OFF. SENSOR CONTROL OF LIGHTS SHALL BE WIRED BEFORE THE LOCAL WALL SWITCH. SENSOR SHALL NOT TURN OFF EMERGENCY NIGHT LIGHTS/LAMPS. PROVIDE POWER MODULES/RELAYS AND WIRING AS REQUIRED. SEE DETAILS. LIGHTING CONTROL BASIS OF DESIGN: DOUGLAS LIGHTING CONTROLS.
- EACH BRANCH CIRCUIT IS TO HAVE ITS OWN NEUTRAL WIRE AND IS NOT TO SHARE A NEUTRAL WITH OTHER CIRCUITS.
- ALL ELECTRICAL WIRING DEVICES ARE TO BE RECESSED (FLUSH MOUNTED) UNLESS NOTED OTHERWISE OR OTHERWISE DIRECTED BY OWNER.
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SHEET KEYNOTES

- ALL HIGH BAY LUMINAIRES MOUNTED ABOVE MANUFACTURING LINES. SEE EL111 FOR MORE INFORMATION.
- LIGHTING IN PRODUCTION LINE EQUIPMENT BAYS TO BE PROVIDED BY RINGO HEALTH VENDOR, NOT IN CONTRACT. ROUTE CIRCUIT THROUGH LCP TERMINATE ON DESIGNATED PANEL UTILIZING SPARE 20A BREAKER.

LIGHTING SEQUENCE

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- OFFICES: MANUAL WALL BOX 0-10V DIMMER STATIONS WITH INTEGRATED PASSIVE INFRARED VACANCY SENSORS ARE TO BE GREENGATE #OSW-P-010 OR EQUAL. SET SWITCH TO MANUAL ON/AUTO OFF. SET SENSOR TIME OUT AFTER 15 MINUTES OF NO MOTION.
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CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
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CONSULTANT STAMP

MARK	DATE	DESCRIPTION
	FEBRUARY 16, 2022	

PROJECT NUMBER: 2020.017
DRAWING FILE: 8286_MEP_Church Rock Factory
DRAWN BY: NAS
CHECKED BY: Checker
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SHEET TITLE

**LIGHTING FLOOR
PLAN - AREA C
FACTORY**

SHEET NUMBER

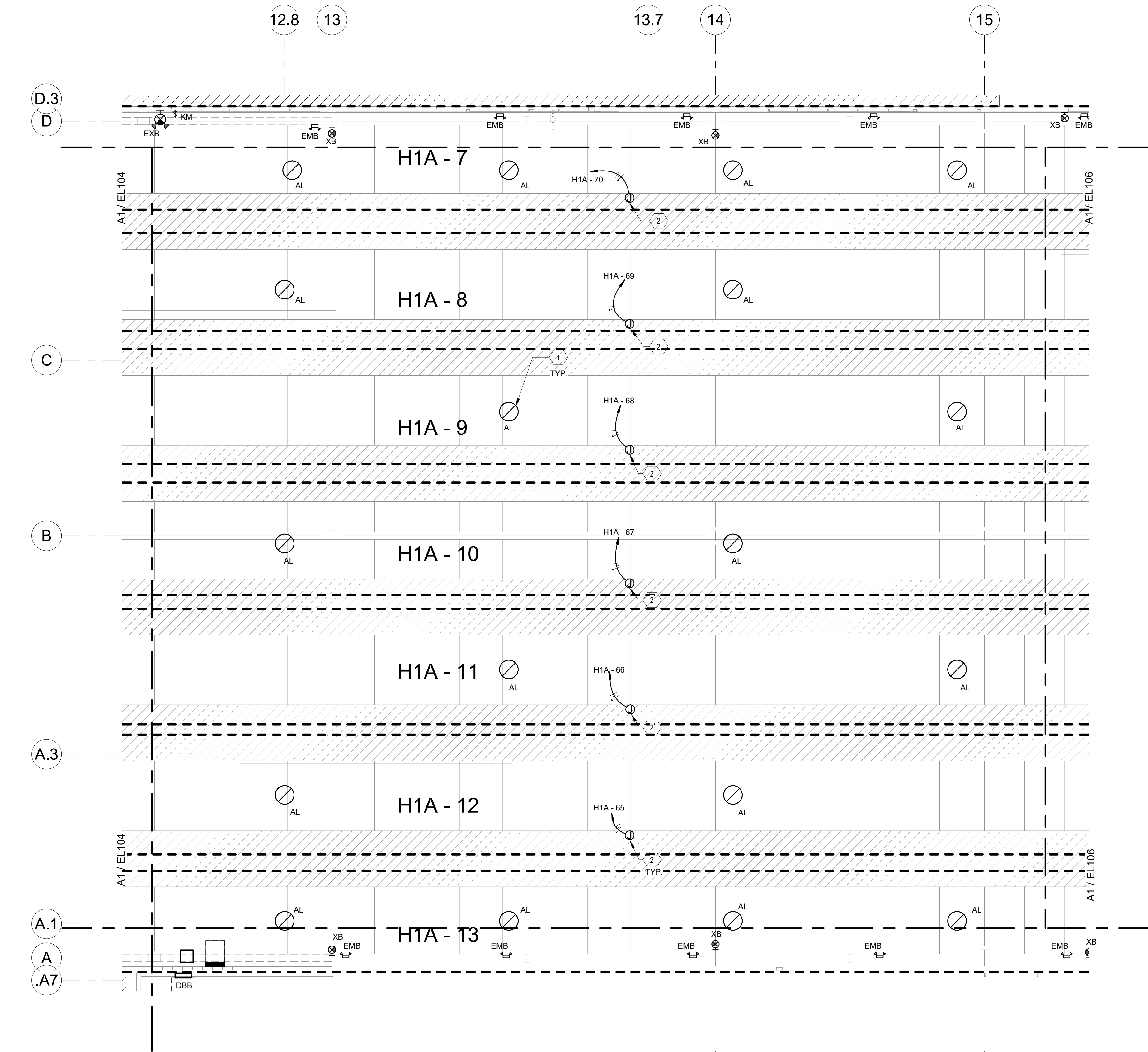
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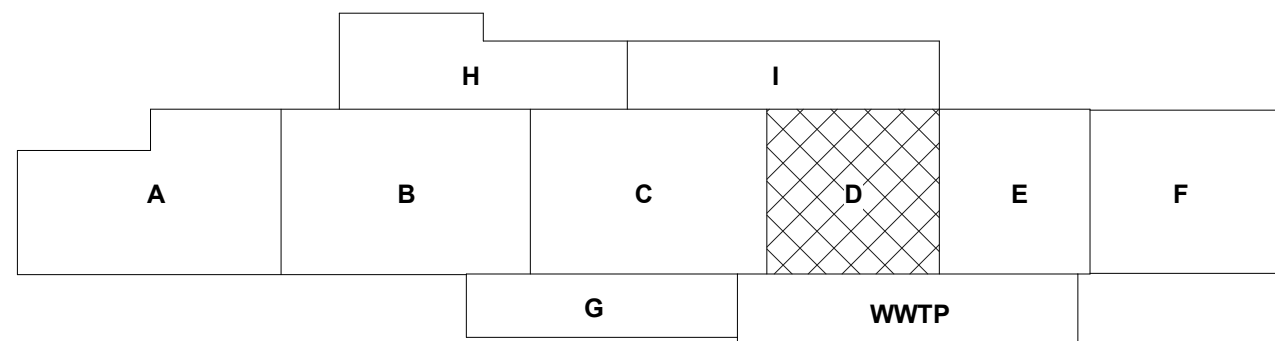
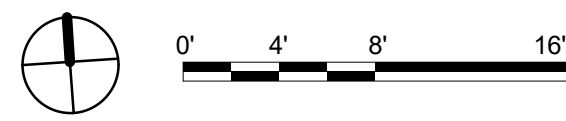
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Bridgers & Paxton Project No. 8286

A B C D E



A1 LIGHTING FIRST FLOOR PLAN - AREA D FACTORY
1/8" = 1'-0"



GENERAL NOTES

- COORDINATE FINAL LOCATION OF ALL DEVICES WITH OWNER AND ARCHITECT WITH RESPECT TO MOUNTING HEIGHTS AND LOCATION OF EQUIPMENT, FURNITURE AND WALL FURNISHINGS. COORDINATE FINAL LOCATION SO AS NOT TO INTERFERE WITH FURNISHING OR WALL MOUNTED ITEMS.
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CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO +
ARCHITECTURE, LLC



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CONSULTANT STAMP

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	FEBRUARY 16, 2022	

PROJECT NUMBER: 2020.017
DRAWING FILE: 8286_MEP_Church Rock Factory
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SHEET TITLE

**LIGHTING FLOOR
PLAN - AREA D
FACTORY**

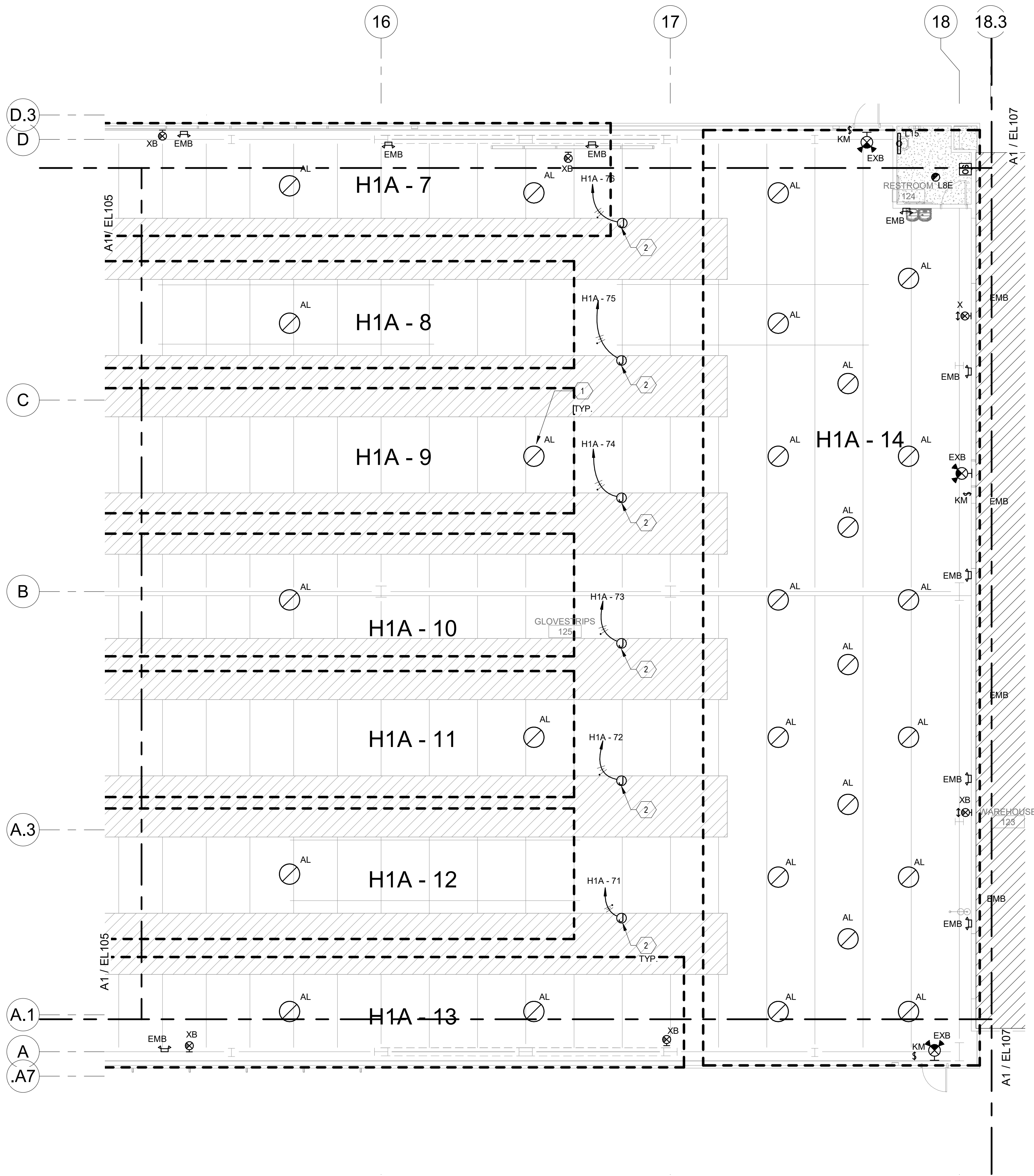
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EL105

Sequence of

A1 LIGHTING FIRST FLOOR PLAN - AREA E FACTORY

1/8" = 1'-0"



GENERAL NOTES

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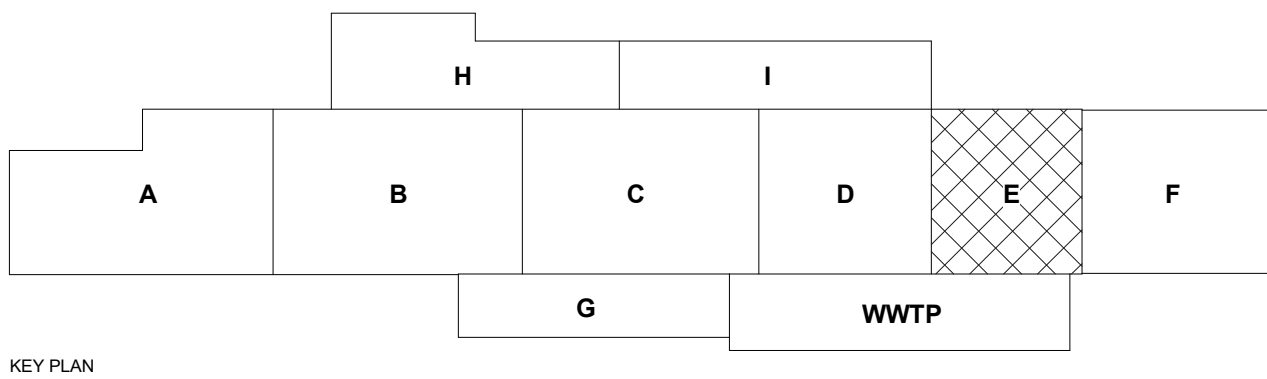
SHEET TITLE

**LIGHTING FLOOR
PLAN - AREA E
FACTORY**

SHEET NUMBER

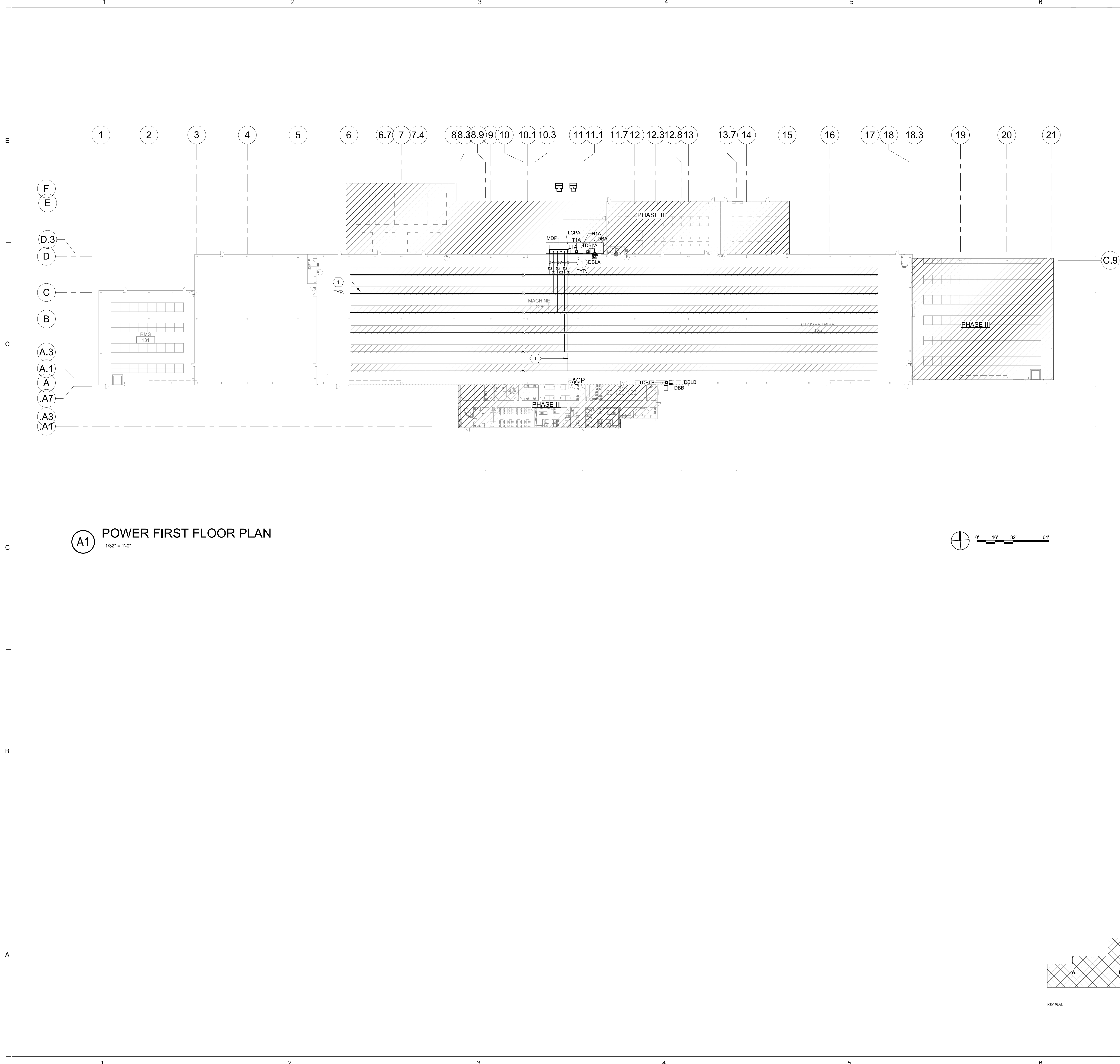
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Sequence of



KEY PLAN

Bridgers & Paxton Project No. 8286 3/18/2022 3:43:30 PM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt



- GENERAL NOTES**

A. CONFIRM ALL CONNECTION AND EQUIPMENT DRAW OUT SECTION LOCATIONS/ORIENTATIONS WITH MANUFACTURER FOR ALL ELECTRICAL EQUIPMENT.

B. CONTRACTOR TO PROVIDE SHOP DRAWING FOR ACTUAL CONDUIT ROUTING AND SUBMIT TO ENGINEER PRIOR TO INSTALLATION.

C. VOLTAGE CONTROL TRANSFORMER, ELECTRICAL CONTRACTOR IS TO PROVIDE A 120V CIRCUIT AND DISCONNECT SWITCH TO THE ASSOCIATED TRANSFORMER.

D. ELECTRICAL CONTRACTOR IS TO PROVIDE A CIRCUIT AND DISCONNECT SWITCH AS INDICATED ON THIS SHEET TO EACH FAN COIL UNIT.

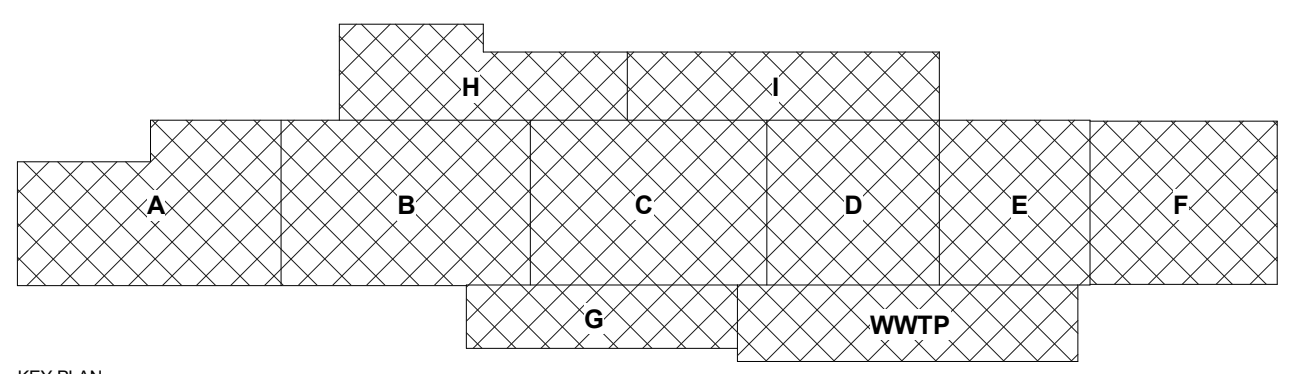
E. PROVIDE FIRE ALARM ADDRESSABLE RELAY FOR EACH FIRE SMOKE DAMPER, REFERENCE SHEET E503.

F. REFER TO SPECIFICATION SECTION 23 0549 - MECHANICAL & ELECTRICAL INSTALLATION COORDINATION FOR MECHANICAL EQUIPMENT COORDINATION.

G. ALL CONDUCTORS SHALL BE #12 COPPER IN 3/4" CONDUIT MINIMUM UNLESS INDICATED OTHERWISE.
- SHEET KEYNOTES**

1. NEMA 3R BUS DUCT - SEE ONE LINE DIAGRAM SHEET E601. BUS DUCT WILL BE PROVIDED IN PHASE III BY RHINO HEALTH VENDOR. NOT IN CONTRACT.

POWER FIRST FLOOR PLAN



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC

8008 Pennsylvania Cir. NE
Albuquerque, NM 87110
Tel 505.226.2565
Fax 505.226.2566

CONSULTANT INFO & LOGO

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SHEET TITLE

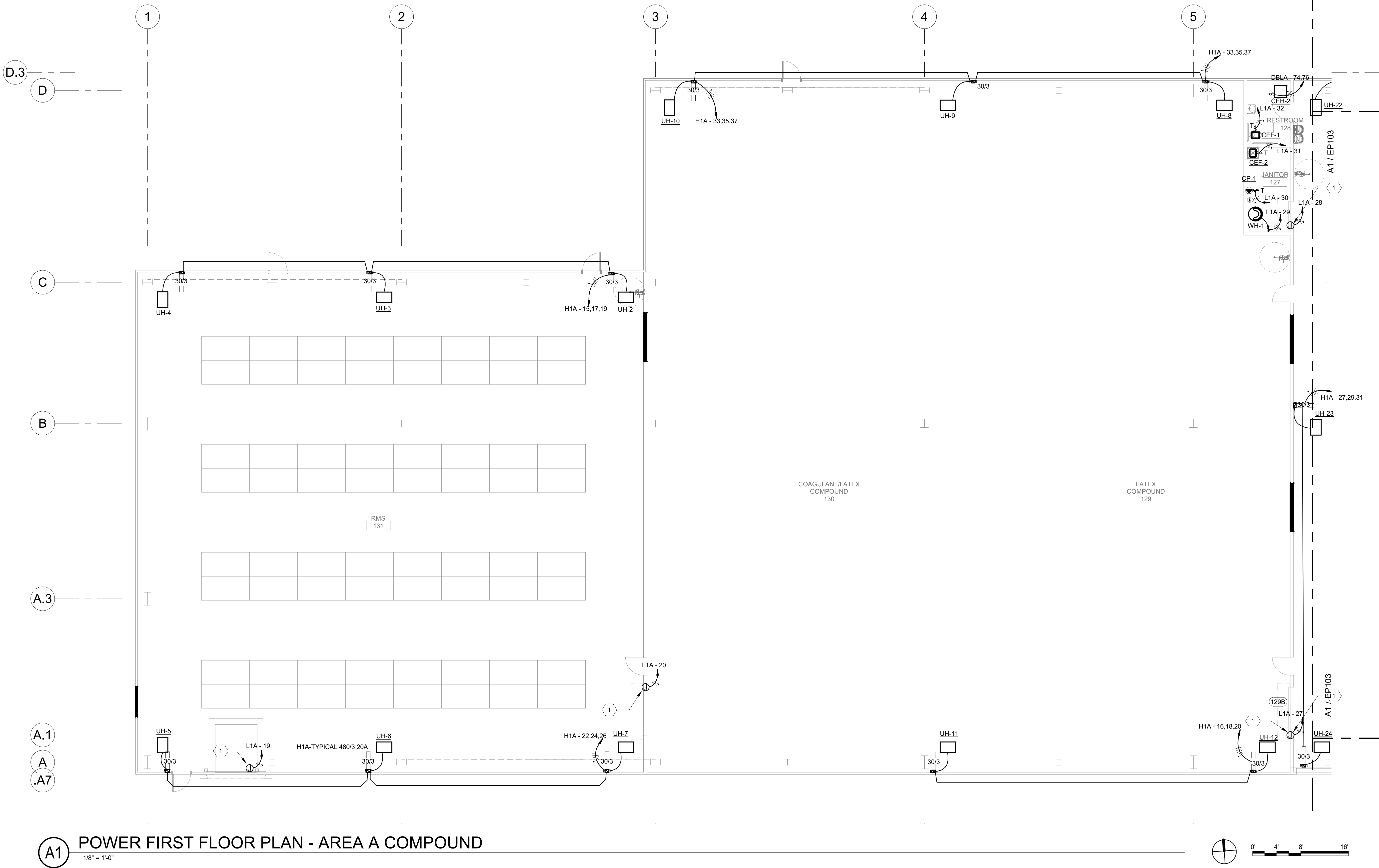
POWER FLOOR PLAN

SHEET NUMBER

EP101
Sequence of

3/18/2022 3:43:30 PM

Bridgers & Paxton Project No. 8286 3/18/2022 3:43:31 PM BIM 360://Church Rock Phase II Factory/8286 MEP_Church Rock Factory.rvt



(A1) POWER FIRST FLOOR PLAN - AREA A COMPOUND
1/8" = 1'-0"

GENERAL NOTES

- CONFIRM ALL CONNECTION AND EQUIPMENT DRAW OUT SECTION LOCATIONS/ORIENTATIONS WITH MANUFACTURER FOR ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR TO PROVIDE SHOP DRAWING FOR ACTUAL CONDUIT ROUTING AND SUBMIT TO ENGINEER PRIOR TO INSTALLATION.
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- ALL CONDUCTORS SHALL BE #12 COPPER IN 3/4" CONDUIT MINIMUM UNLESS INDICATED OTHERWISE.

SHEET KEYNOTES

- POWER FOR OVERHEAD DOOR, COORDINATE WITH VENDOR AND OWNENR PRIOR TO ROUGH IN.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
OWNER:
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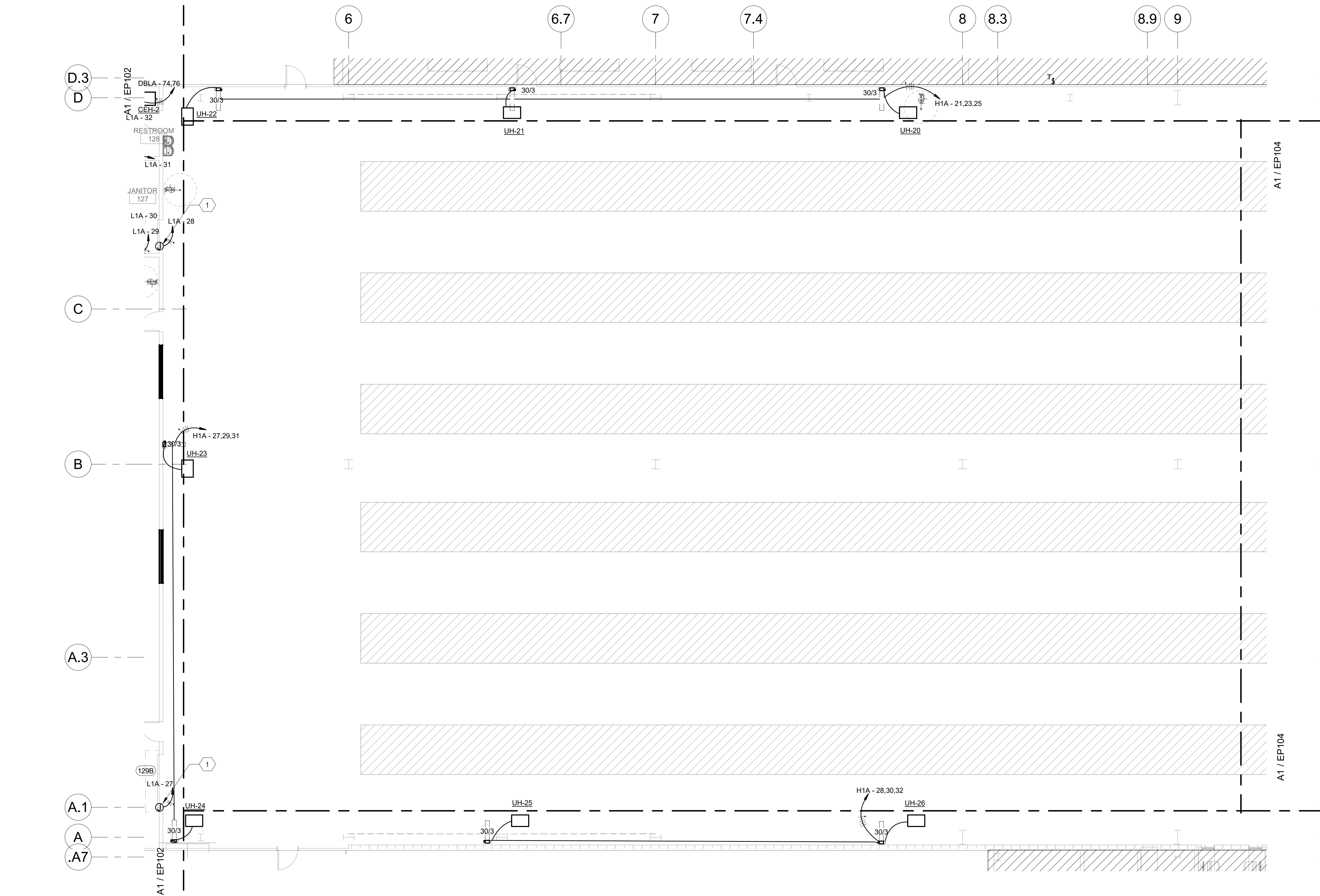
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POWER FLOOR PLAN - AREA A COMP.

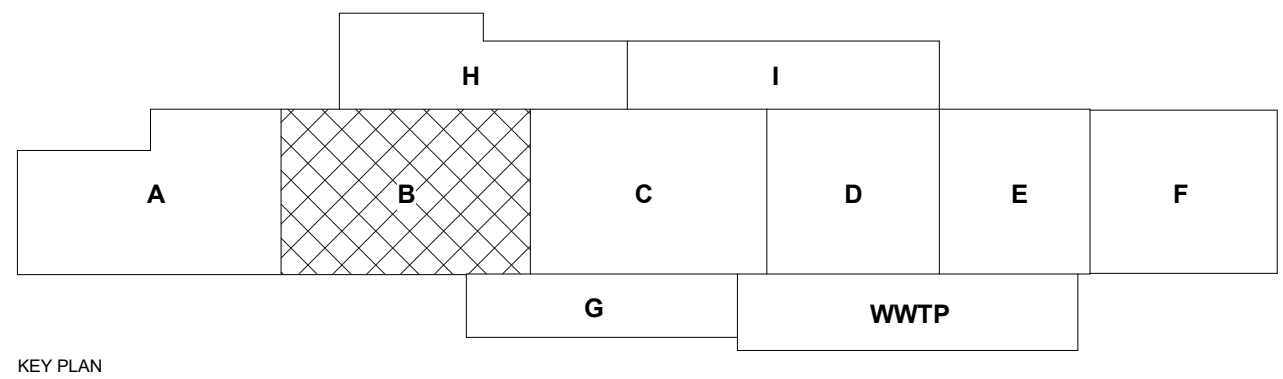
SHEET NUMBER

EP102

Sequence of



(A1) POWER FIRST FLOOR PLAN - AREA B FACTORY
1/8" = 1'-0"



KEY PLAN

GENERAL NOTES

- CONFIRM ALL CONNECTION AND EQUIPMENT DRAW OUT SECTION LOCATIONS/ORIENTATIONS WITH MANUFACTURER FOR ALL ELECTRICAL EQUIPMENT.
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SHEET KEYNOTES

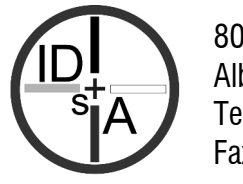
- POWER FOR OVERHEAD DOOR, COORDINATE WITH VENDOR AND OWENR PRIOR TO ROUGH IN.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

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ARCHITECTURE, LLC



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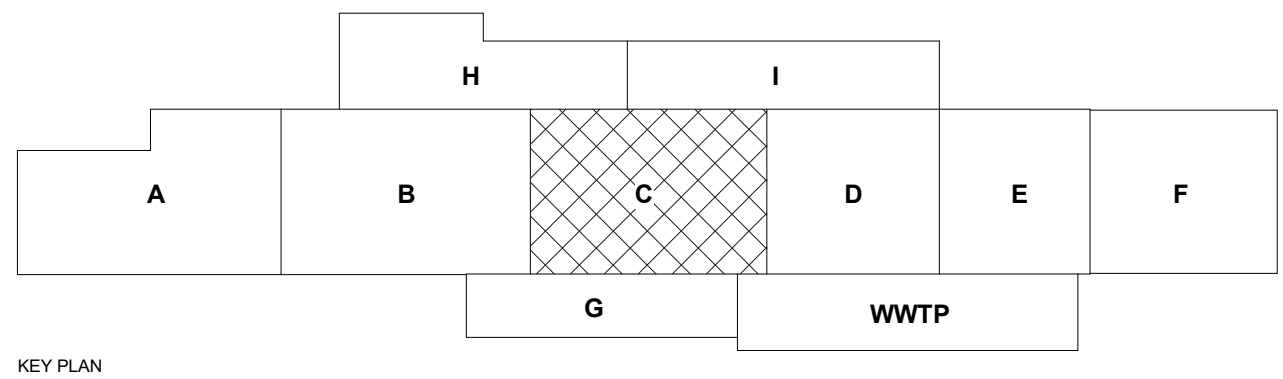
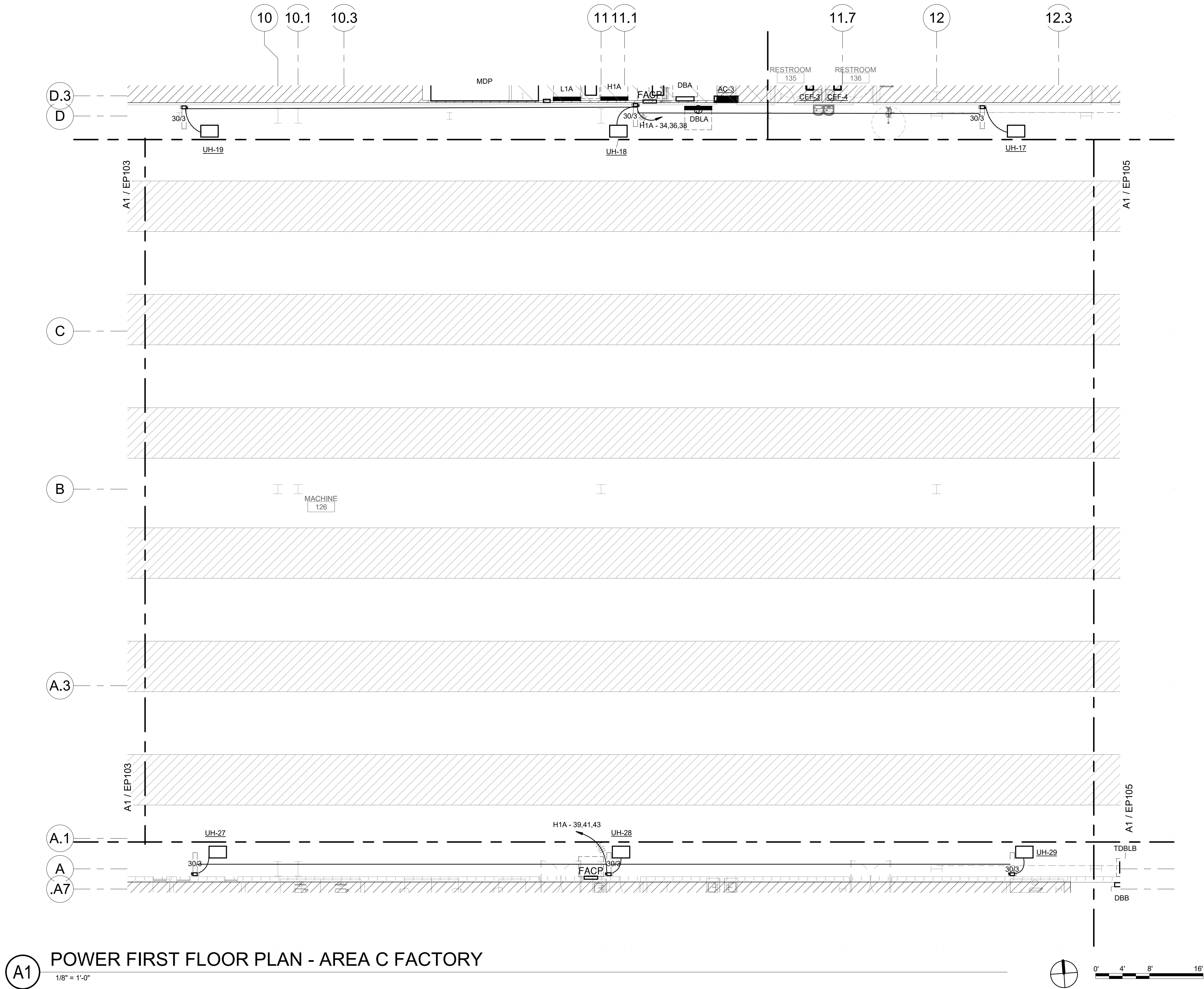
**POWER FLOOR
PLAN - AREA B
FACTORY**

SHEET NUMBER

EP103

Sequence of

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GENERAL NOTES

- A. CONFIRM ALL CONNECTION AND EQUIPMENT DRAW OUT SECTION LOCATIONS/ORIENTATIONS WITH MANUFACTURER FOR ALL ELECTRICAL EQUIPMENT.
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- E. PROVIDE FIRE ALARM ADDRESSABLE RELAY FOR EACH FIRE SMOKE DAMPER, REFERENCE SHEET E503.
- F. REFER TO SPECIFICATION SECTION 23 0549 - MECHANICAL & ELECTRICAL INSTALLATION COORDINATION FOR MECHANICAL EQUIPMENT COORDINATION.
- G. ALL CONDUCTORS SHALL BE #12 COPPER IN 3/4" CONDUIT MINIMUM UNLESS INDICATED OTHERWISE.

SHEET KEYNOTES

1. POWER FOR OVERHEAD DOOR. COORDINATE WITH VENDOR AND OWENR PRIOR TO ROUGH IN.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

50% CONSTRUCTION DOCUMENTS

FEBRUARY 16, 2022

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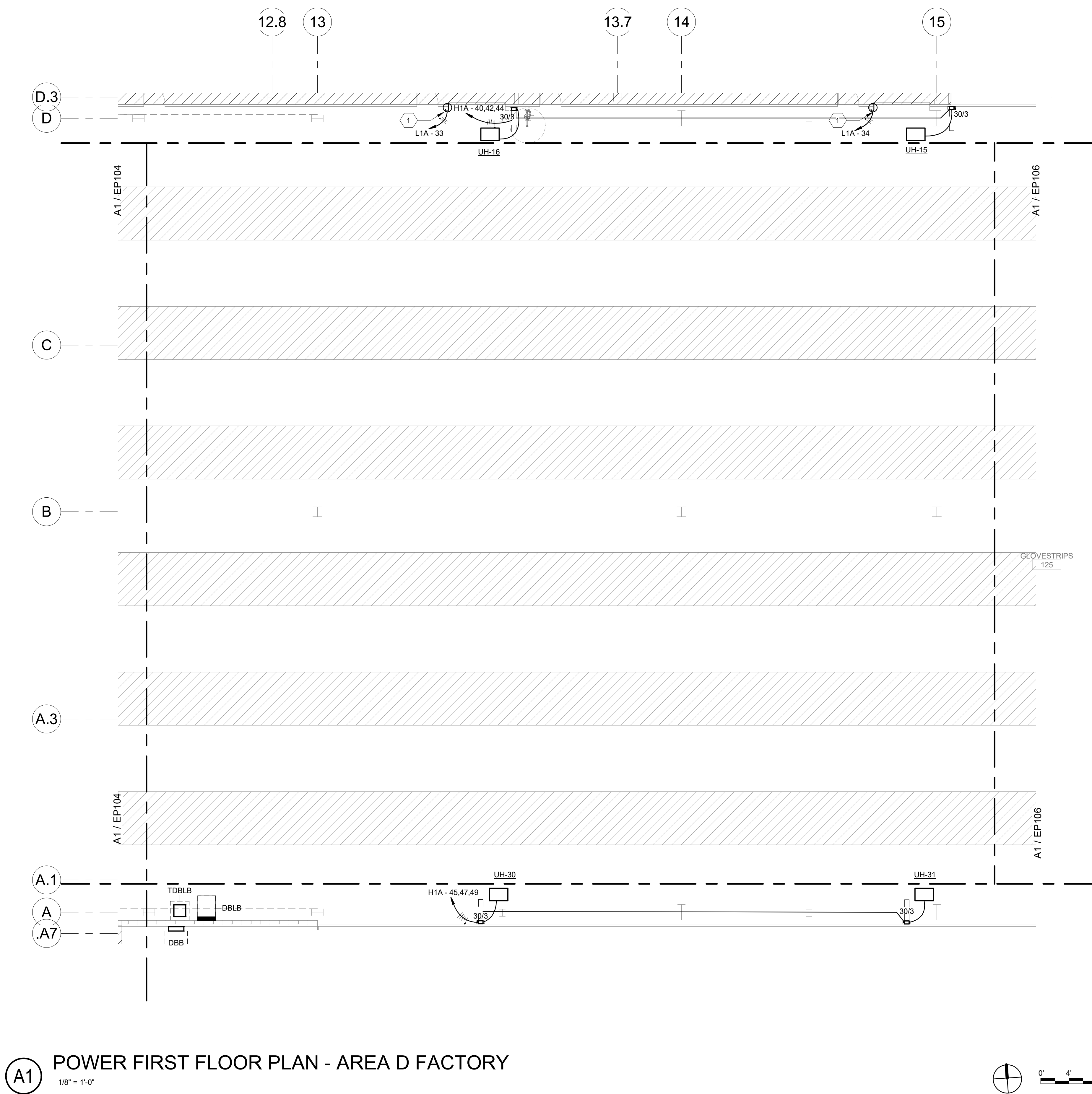
POWER FLOOR
PLAN - AREA C
FACTORY

SHEET NUMBER

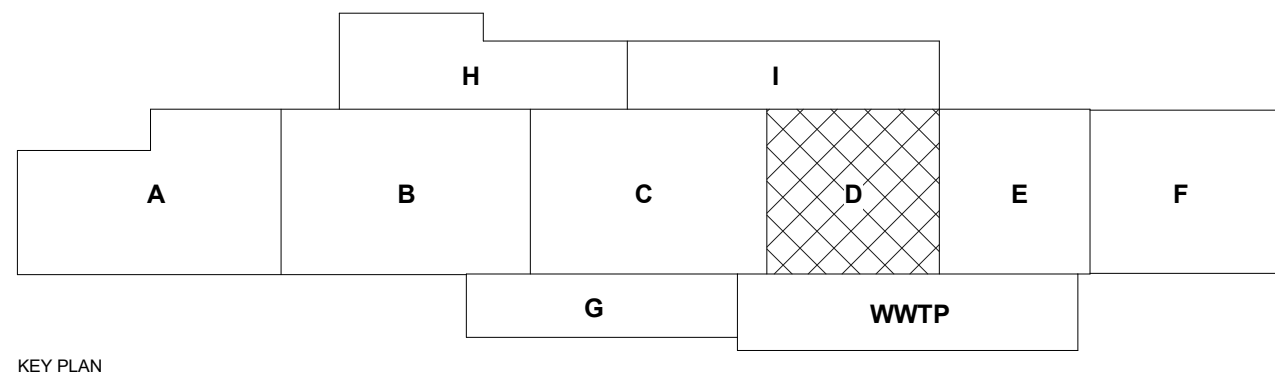
EP104

Sequence of

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A1 POWER FIRST FLOOR PLAN - AREA D FACTORY
1/8" = 1'-0"



GENERAL NOTES

- CONFIRM ALL CONNECTION AND EQUIPMENT DRAW OUT SECTION LOCATIONS/ORIENTATIONS WITH MANUFACTURER FOR ALL ELECTRICAL EQUIPMENT.
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SHEET KEYNOTES

- POWER FOR OVERHEAD DOOR. COORDINATE WITH VENDOR AND OWENR PRIOR TO ROUGH IN.

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CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
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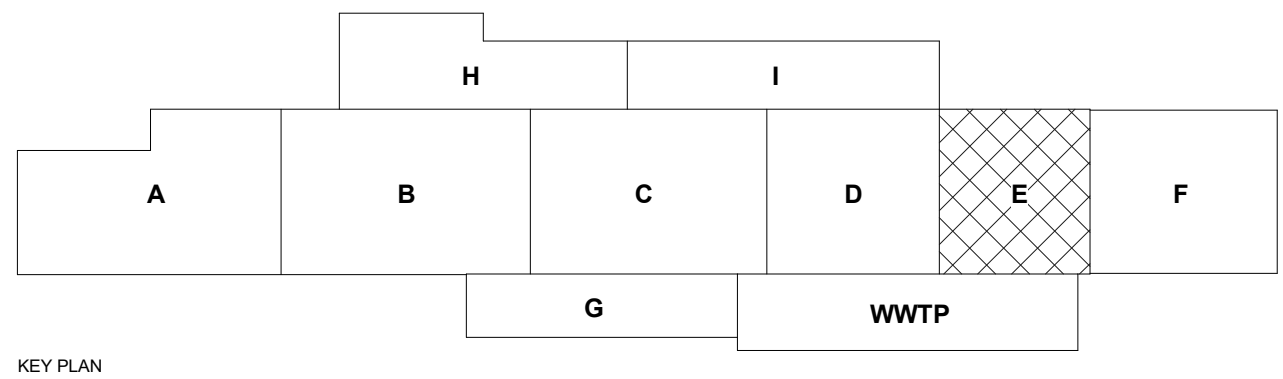
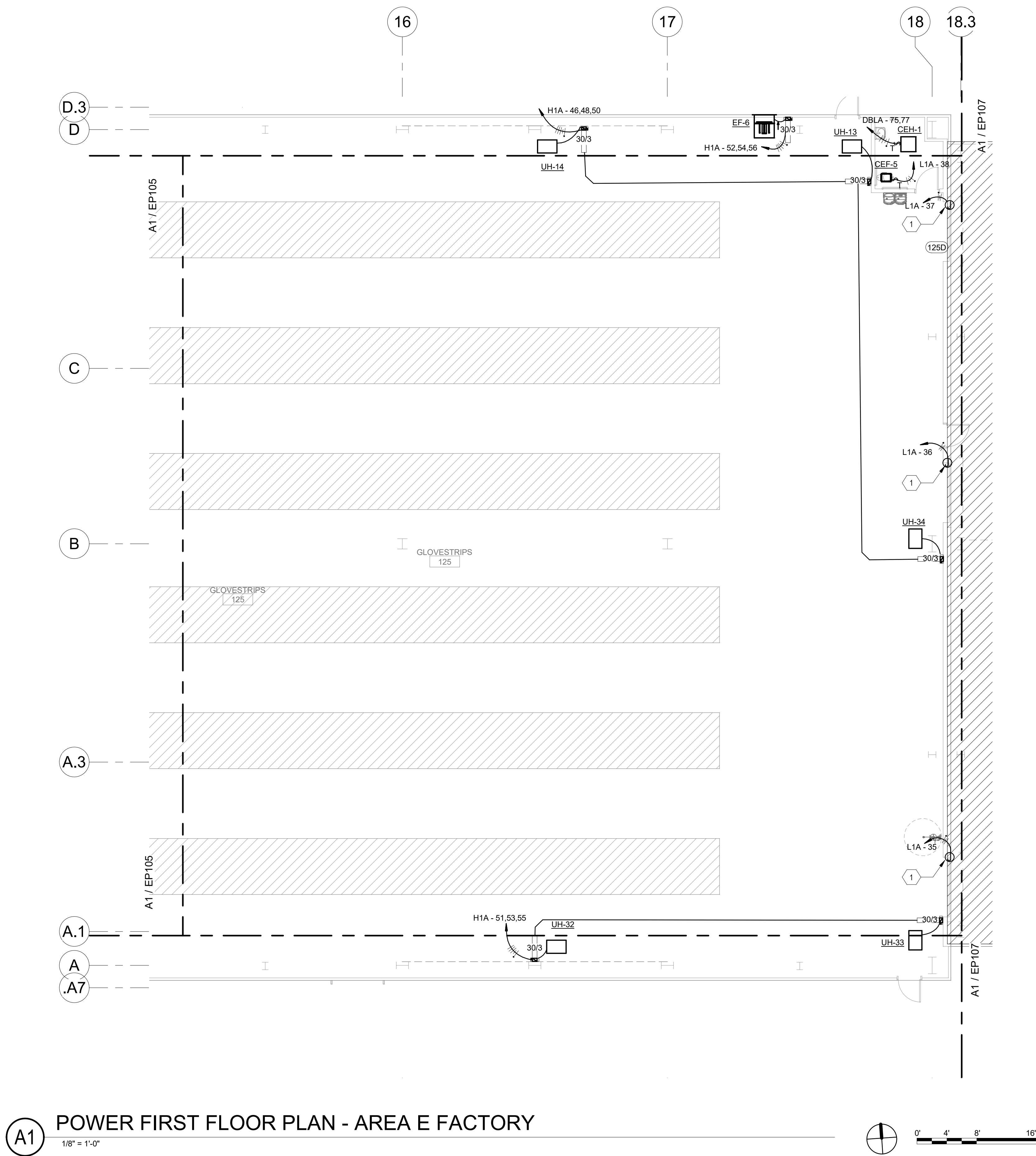
SHEET TITLE

POWER FLOOR PLAN - AREA D FACTORY

SHEET NUMBER

EP105

Sequence of



GENERAL NOTES

- CONFIRM ALL CONNECTION AND EQUIPMENT DRAW OUT SECTION LOCATIONS/ORIENTATIONS WITH MANUFACTURER FOR ALL ELECTRICAL EQUIPMENT.
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SHEET KEYNOTES

- POWER FOR OVERHEAD DOOR. COORDINATE WITH VENDOR AND OWENR PRIOR TO ROUGH IN.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

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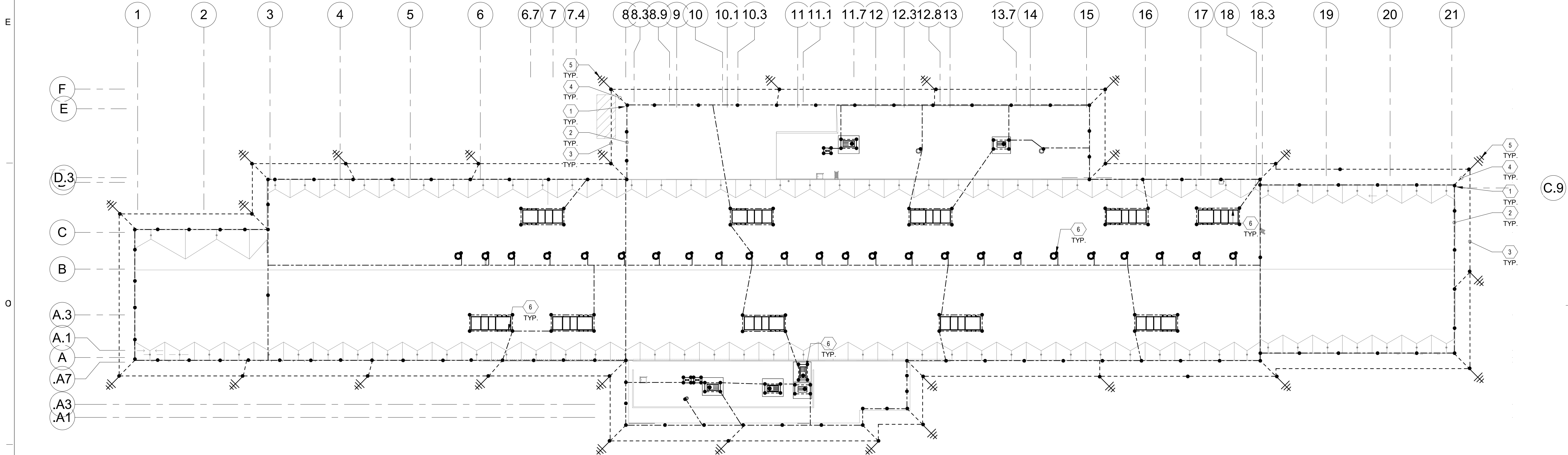
POWER FLOOR
PLAN - AREA E
FACTORY

SHEET NUMBER

EP106

Sequence of

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LIGHTNING PROTECTION GENERAL NOTES

IT IS THE INTENT OF THESE DOCUMENTS TO SHOW A BASIC REPRESENTATION OF THE LIGHTNING PROTECTION SYSTEM. DEVICES INDICATED ON THESE DOCUMENTS ARE IN NO WAY IMPLIED TO BE COMPREHENSIVE OF THE FINAL DESIGN. IT IS THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR TO PROVIDE A LIGHTNING PROTECTION SYSTEM BASED UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR TO ENSURE THAT THE LIGHTNING PROTECTION SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR ASSOCIATED WITH OTHER TRADES AND SYSTEMS IMPACTING THE LIGHTNING PROTECTION SYSTEM. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACHIEVE A MASTER LABEL FOR THE LIGHTNING PROTECTION SYSTEM. NO CHANGE ORDERS SHALL BE APPROVED FOR THE BASE SCOPE OF WORK.

A. LIGHTNING PROTECTION SYSTEM IS SHOWN DIAGRAMMATICALLY. CONTRACTOR WILL INSTALL PER NFPA 780 AND SPECIFICATION 284112 TO ACHIEVE A MASTER LABEL.

B. REFER TO SHEET E-602 FOR LIGHTNING PROTECTION DETAILS AND ADDITIONAL INFORMATION

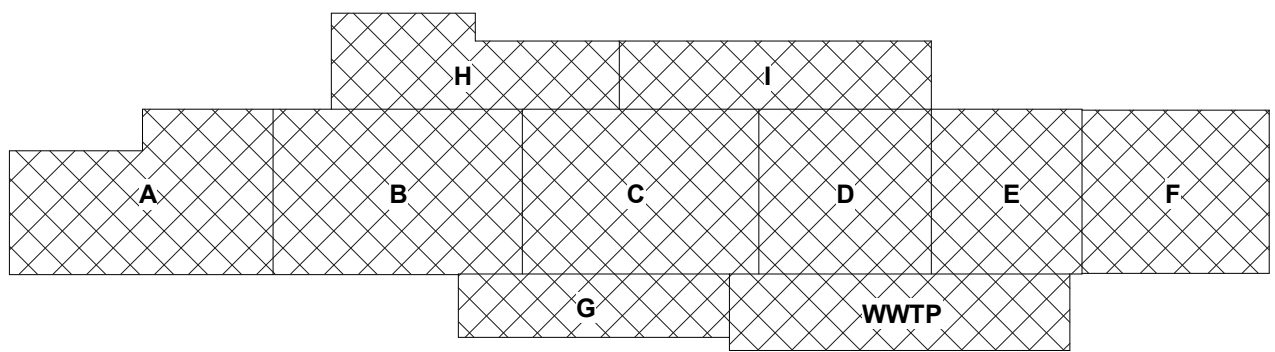
SHEET KEYNOTES

- 24" TALL LIGHTNING ARRESTORS.
- LIGHTNING CONDUCTOR EXPOSED AND MOUNTED TO TOP OR SIDE OF PARAPET
- LIGHTNING COUNTERPOISE UNDERGROUND NO MORE THAN 5'-0" FROM BUILDING AND 36" BELOW GRADE.
- DOWN CONDUCTOR FROM ROOF TOP LIGHTNING ARRESTORS TO COUNTERPOISE AND GROUND RODS. ROUTING OF DOWN CONDUCTOR TO COUNTERPOISE WILL BE INTERIOR TO WALL STRUCTURE.
- GROUND RODS.
- ATTACH LIGHTNING PROTECTION TO MECHANICAL EQUIPMENT

C.9

A1 ELECTRICAL ROOF LIGHTNING PROTECTION PLAN

1/32" = 1'-0"



CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
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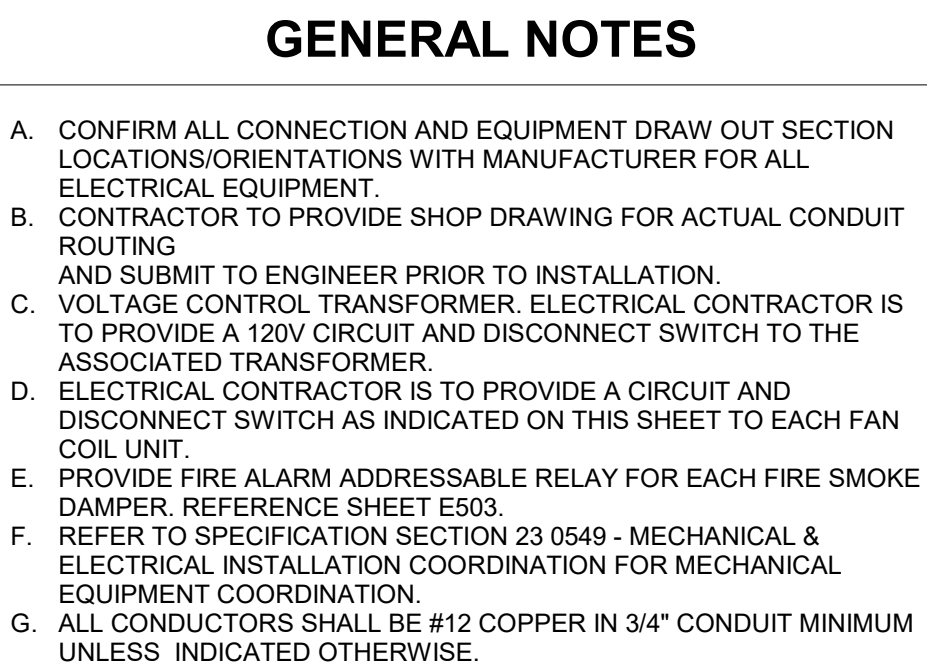
ELECTRICAL ROOF
LIGHTNING
PROTECTION PLAN

SHEET NUMBER

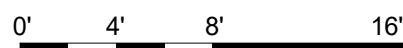
EP120

Sequence of

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1. XXXX

$$1/8" = 1'-0"$$


CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
 FEBRUARY 16, 2022

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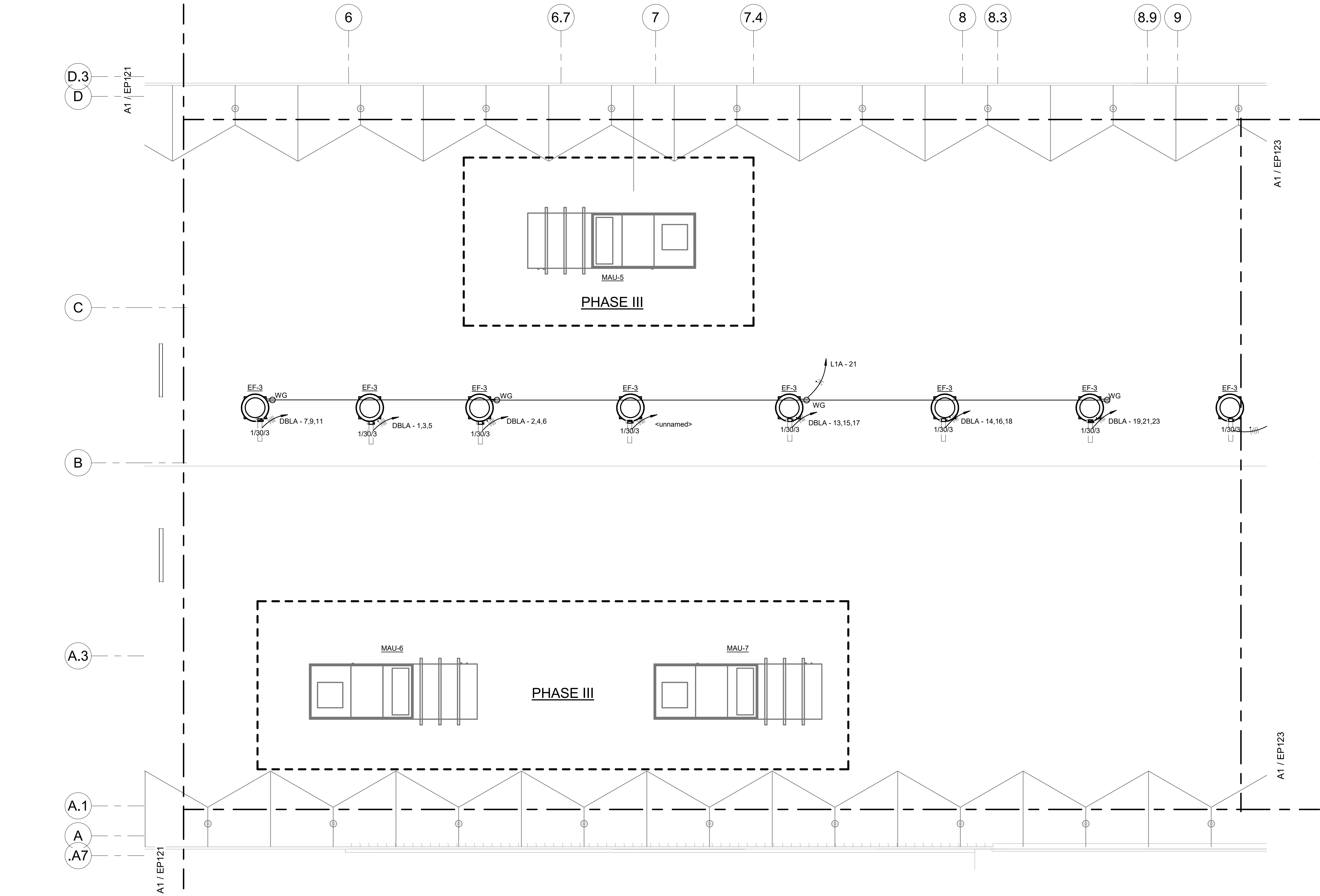
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**ELECTRICAL ROOF
PLAN - AREA A
COMP.**

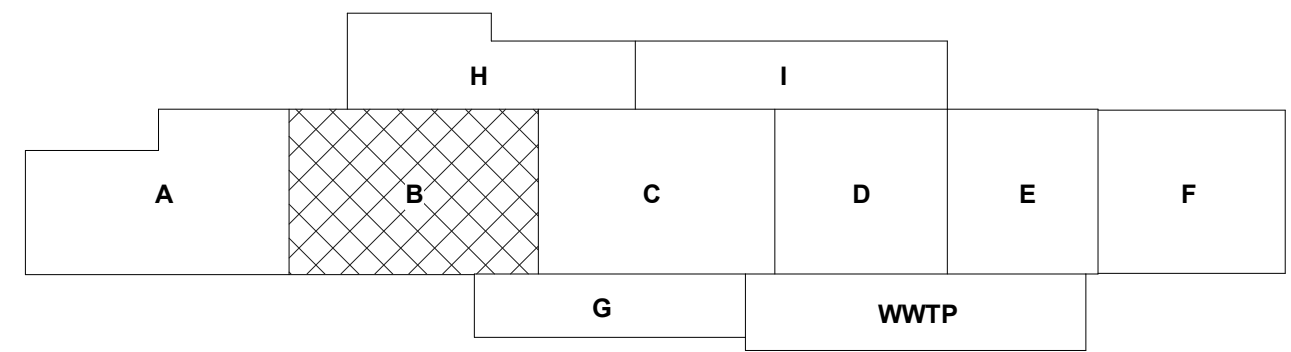
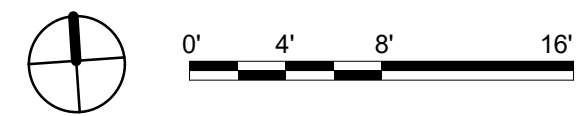
EP121

Sequence of

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3/18/2022 3:43:40 PM
Bridgers & Paxton Project No. 8286



(A1) ELECTRICAL ROOF PLAN - AREA B FACTORY
1/8" = 1'-0"



GENERAL NOTES

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SHEET KEYNOTES

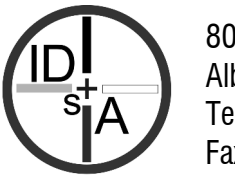
- 1. XXXX

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022

OWNER:
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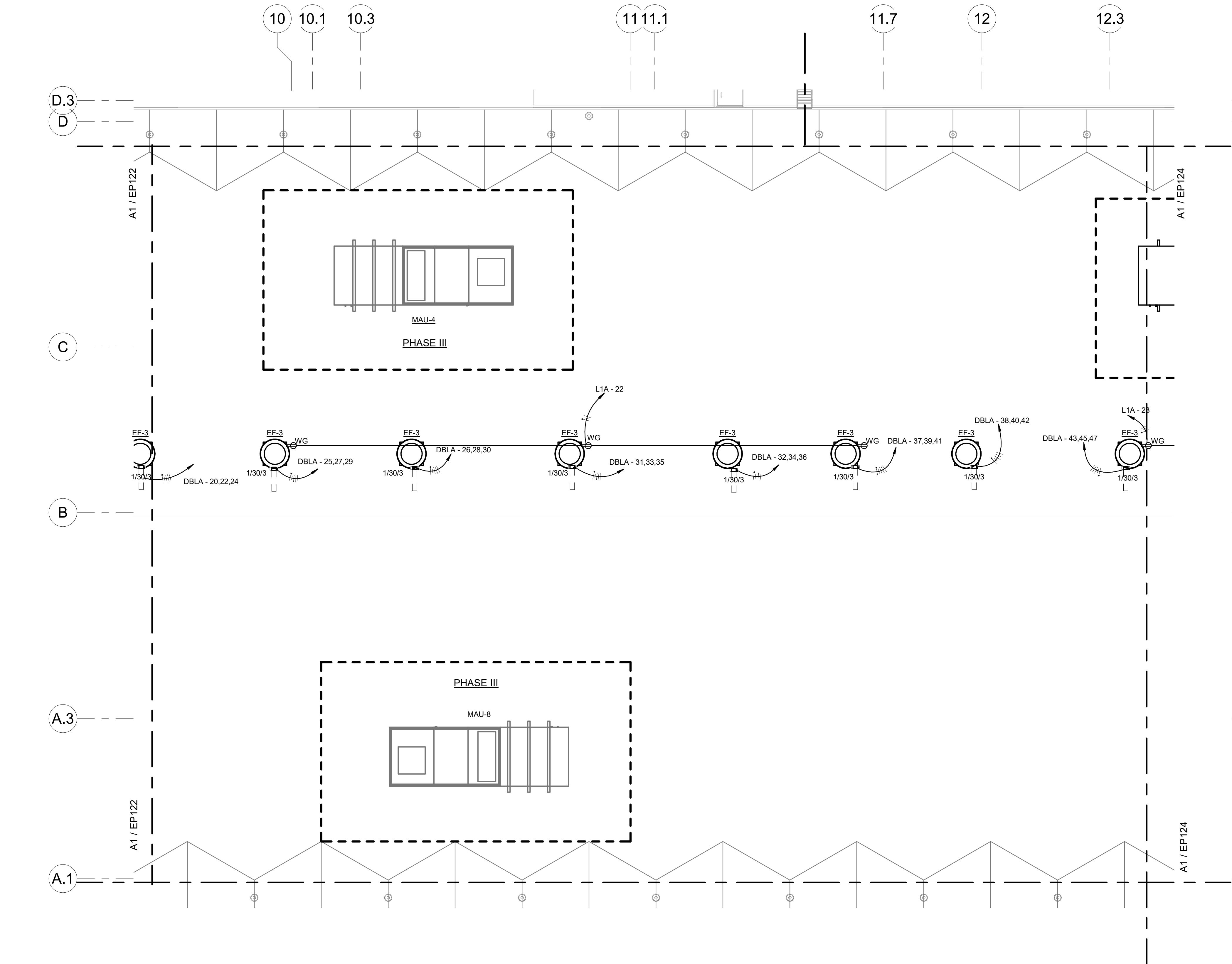
**ELECTRICAL ROOF
PLAN - AREA B
FACTORY**

SHEET NUMBER

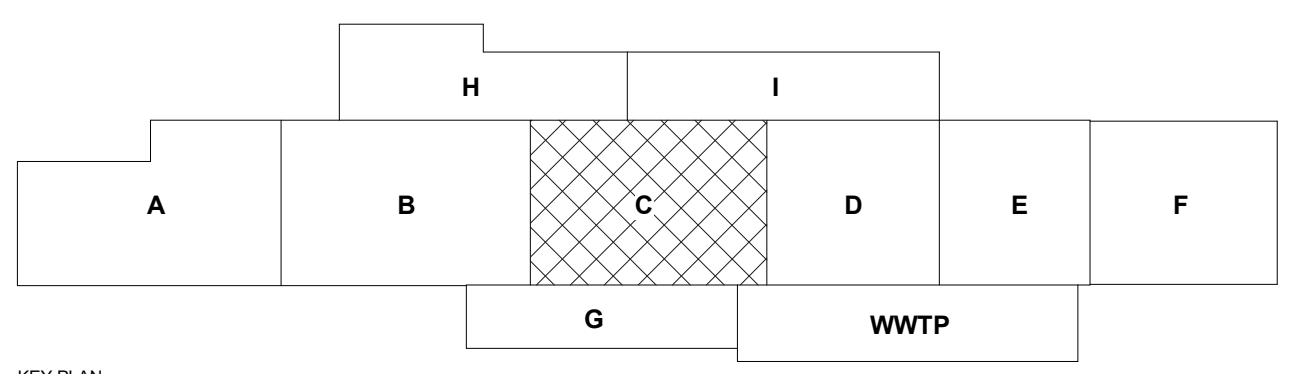
EP122

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Bridgers & Paxton Project No. 8286



(A1) ELECTRICAL ROOF PLAN - AREA C FACTORY
1/8" = 1'-0"



- GENERAL NOTES**
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- SHEET KEYNOTES**
- 1. XXXX

CHURCH ROCK PHASE II FACTORY
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FEBRUARY 16, 2022
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INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC
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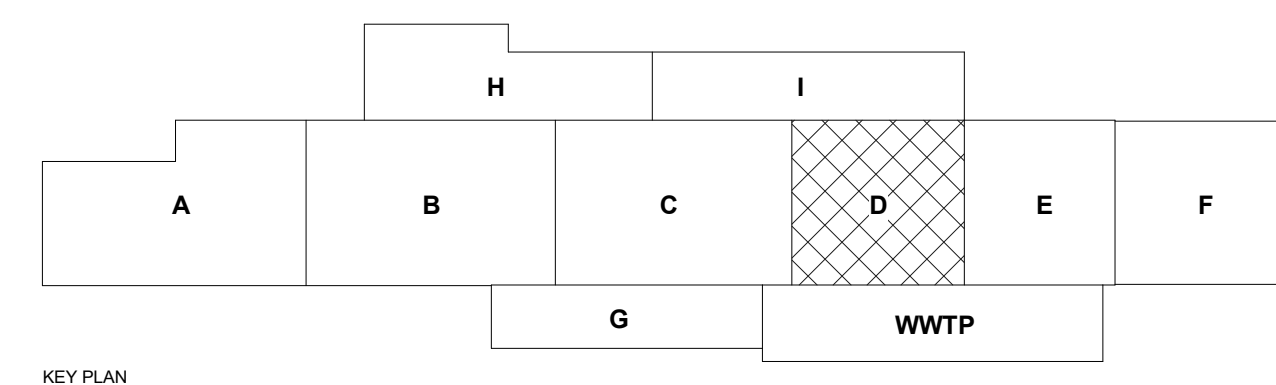
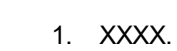
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SHEET TITLE
ELECTRICAL ROOF PLAN - AREA C FACTORY

SHEET NUMBER
EP123
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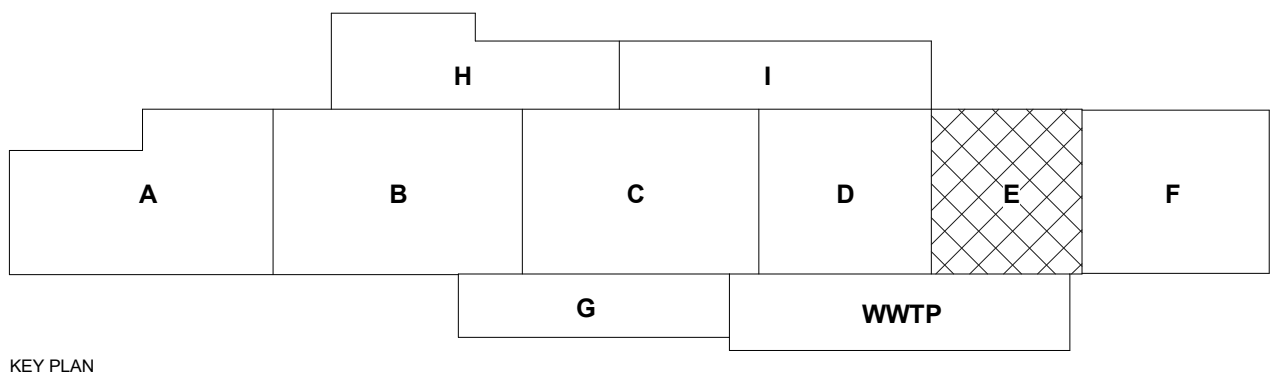
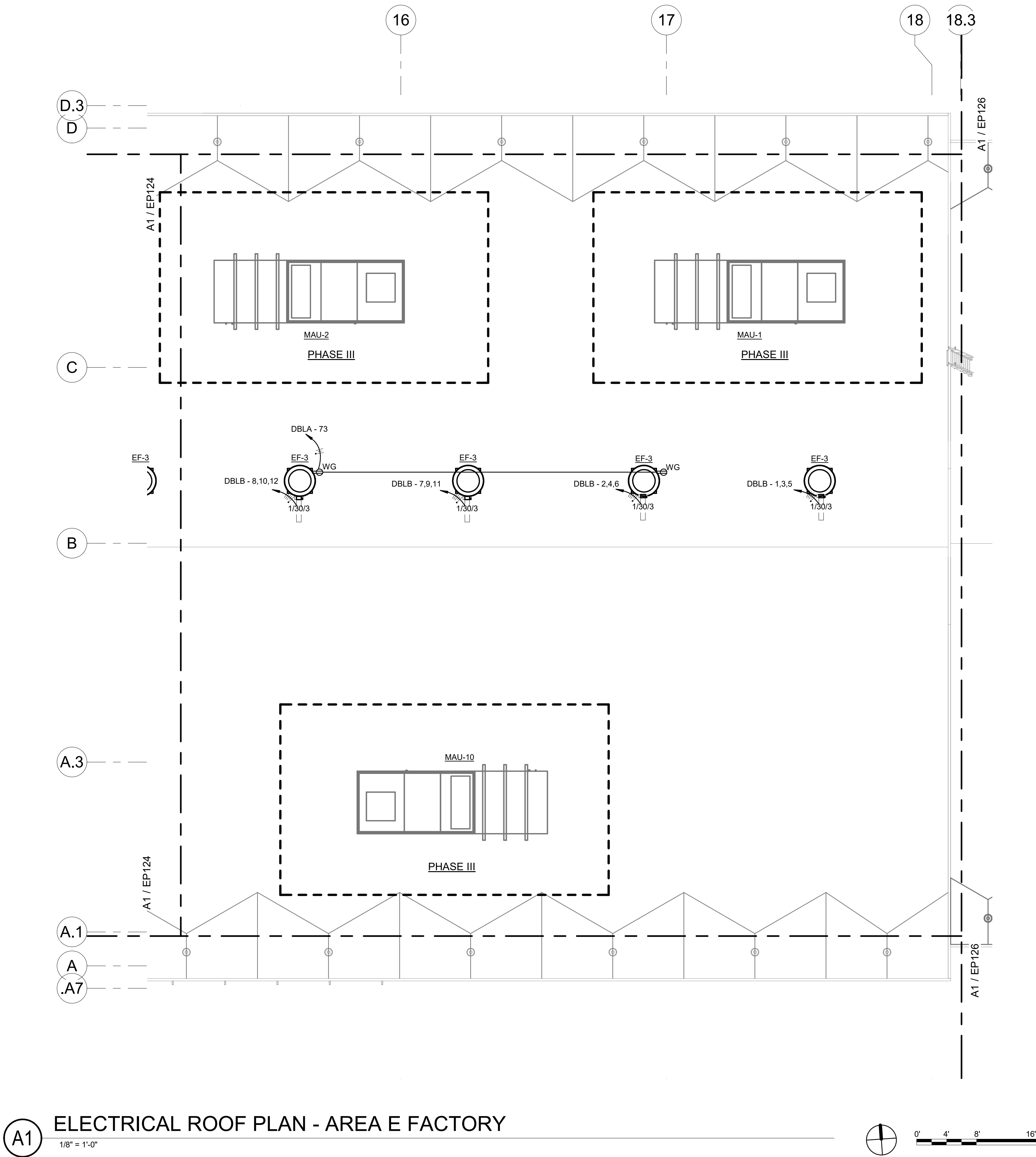
SHEET TITLE

**ELECTRICAL ROOM
PLAN - AREA D
FACTORY**

SHEET NUMBER

EP124

Sequence of



GENERAL NOTES

- A. CONFIRM ALL CONNECTION AND EQUIPMENT DRAW OUT SECTION LOCATIONS/ORIENTATIONS WITH MANUFACTURER FOR ALL ELECTRICAL EQUIPMENT.
B. CONTRACTOR TO PROVIDE SHOP DRAWING FOR ACTUAL CONDUIT ROUTING AND SUBMIT TO ENGINEER PRIOR TO INSTALLATION.
C. VOLTAGE CONTROL TRANSFORMER, ELECTRICAL CONTRACTOR IS TO PROVIDE A 120V CIRCUIT AND DISCONNECT SWITCH TO THE ASSOCIATED TRANSFORMER.
D. ELECTRICAL CONTRACTOR IS TO PROVIDE A CIRCUIT AND DISCONNECT SWITCH AS INDICATED ON THIS SHEET TO EACH FAN COIL UNIT.
E. PROVIDE FIRE ALARM ADDRESSABLE RELAY FOR EACH FIRE SMOKE DAMPER, REFERENCE SHEET E503.
F. REFER TO SPECIFICATION SECTION 23 0549 - MECHANICAL & ELECTRICAL INSTALLATION COORDINATION FOR MECHANICAL EQUIPMENT COORDINATION.
G. ALL CONDUCTORS SHALL BE #12 COPPER IN 3/4" CONDUIT MINIMUM UNLESS INDICATED OTHERWISE.

SHEET KEYNOTES

1. XXXX

CHURCH ROCK PHASE II FACTORY

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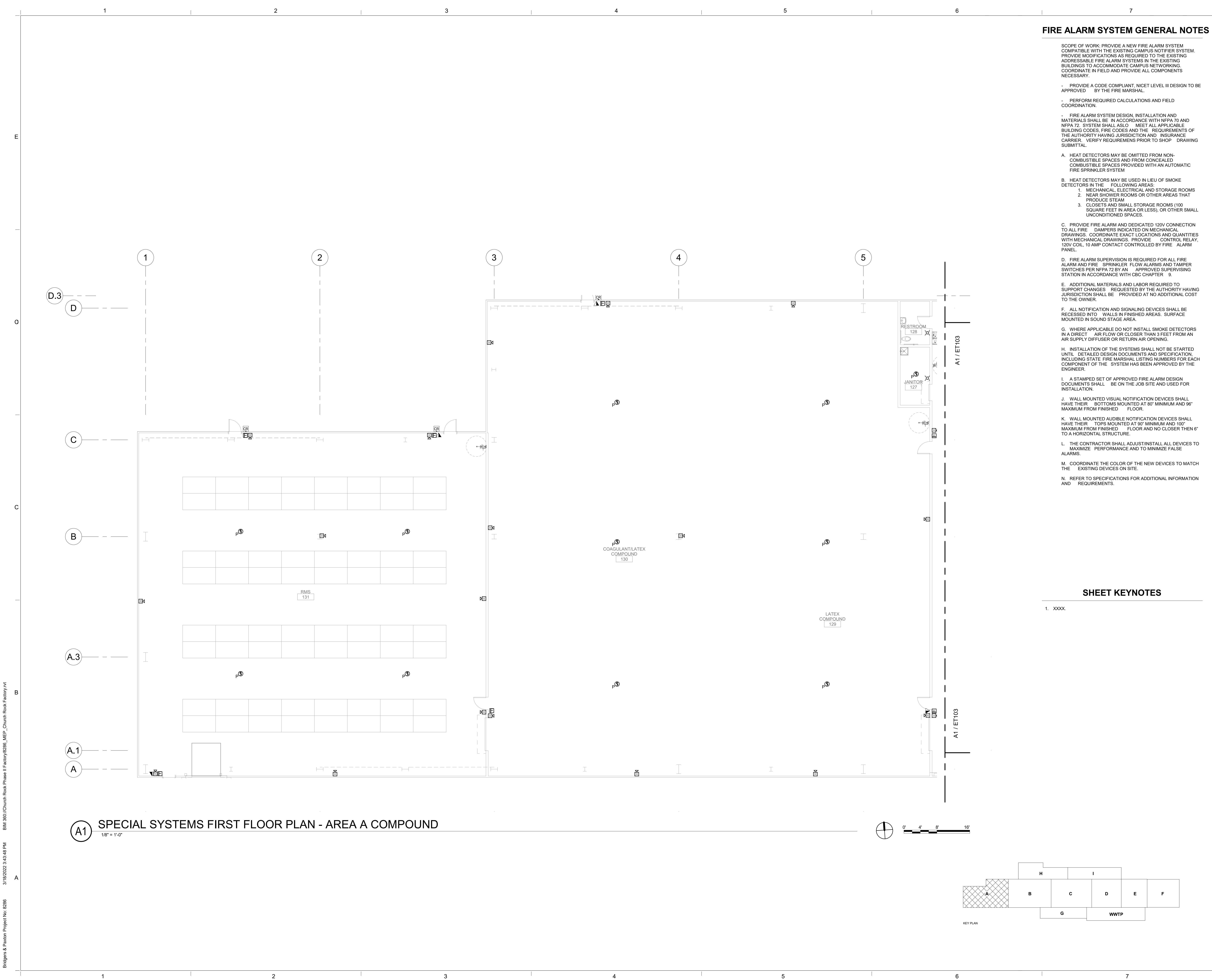
SHEET TITLE

ELECTRICAL ROOF
PLAN - AREA E
FACTORY

SHEET NUMBER

EP125

Sequence of



FIRE ALARM SYSTEM GENERAL NOTES

- SCOPE OF WORK: PROVIDE A NEW FIRE ALARM SYSTEM COMPATIBLE WITH THE EXISTING CAMPUS NOTIFIER SYSTEM. PROVIDE MODIFICATIONS AS REQUIRED TO THE EXISTING ADDRESSABLE FIRE ALARM SYSTEMS IN THE EXISTING BUILDINGS TO ACCOMMODATE CAMPUS NETWORKING. COORDINATE IN FIELD AND PROVIDE ALL COMPONENTS NECESSARY.
- PROVIDE A CODE COMPLIANT, NICET LEVEL III DESIGN TO BE APPROVED BY THE FIRE MARSHAL.
 - PERFORM REQUIRED CALCULATIONS AND FIELD COORDINATION.
 - FIRE ALARM SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO SHOP DRAWING SUBMITTAL.
- A. HEAT DETECTORS MAY BE OMITTED FROM NON-COMBUSTIBLE SPACES AND FROM CONCEALED COMBUSTIBLE SPACES PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM.
- B. HEAT DETECTORS MAY BE USED IN LIEU OF SMOKE DETECTORS IN THE FOLLOWING AREAS:
1. MECHANICAL, ELECTRICAL AND STORAGE ROOMS
 2. NEAR SHOWER ROOMS OR OTHER AREAS THAT PRODUCE STEAM
 3. CLOSETS AND SMALL STORAGE ROOMS (100 SQUARE FEET IN AREA OR LESS), OR OTHER SMALL UNCONDITIONED SPACES.
- C. PROVIDE FIRE ALARM AND DEDICATED 120V CONNECTION TO ALL FIRE DAMPERS INDICATED ON MECHANICAL DRAWINGS. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS. PROVIDE CONTROL RELAY, 120V COIL, 10 AMP CONTACT CONTROLLED BY FIRE ALARM PANEL.
- D. FIRE ALARM SUPERVISION IS REQUIRED FOR ALL FIRE ALARM AND FIRE SPRINKLER FLOW ALARMS AND TAMPER SWITCHES PER NFPA 72 BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH CBC CHAPTER 9.
- E. ADDITIONAL MATERIALS AND LABOR REQUIRED TO SUPPORT CHANGES REQUESTED BY THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- F. ALL NOTIFICATION AND SIGNALING DEVICES SHALL BE RECESSED INTO WALLS IN FINISHED AREAS. SURFACE MOUNTED IN SOUND STAGE AREA.
- G. WHERE APPLICABLE DO NOT INSTALL SMOKE DETECTORS IN A DIRECT AIR FLOW OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
- H. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY THE ENGINEER.
- I. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
- J. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
- K. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
- L. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- M. COORDINATE THE COLOR OF THE NEW DEVICES TO MATCH THE EXISTING DEVICES ON SITE.
- N. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SHEET KEYNOTES

1. XXXX.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

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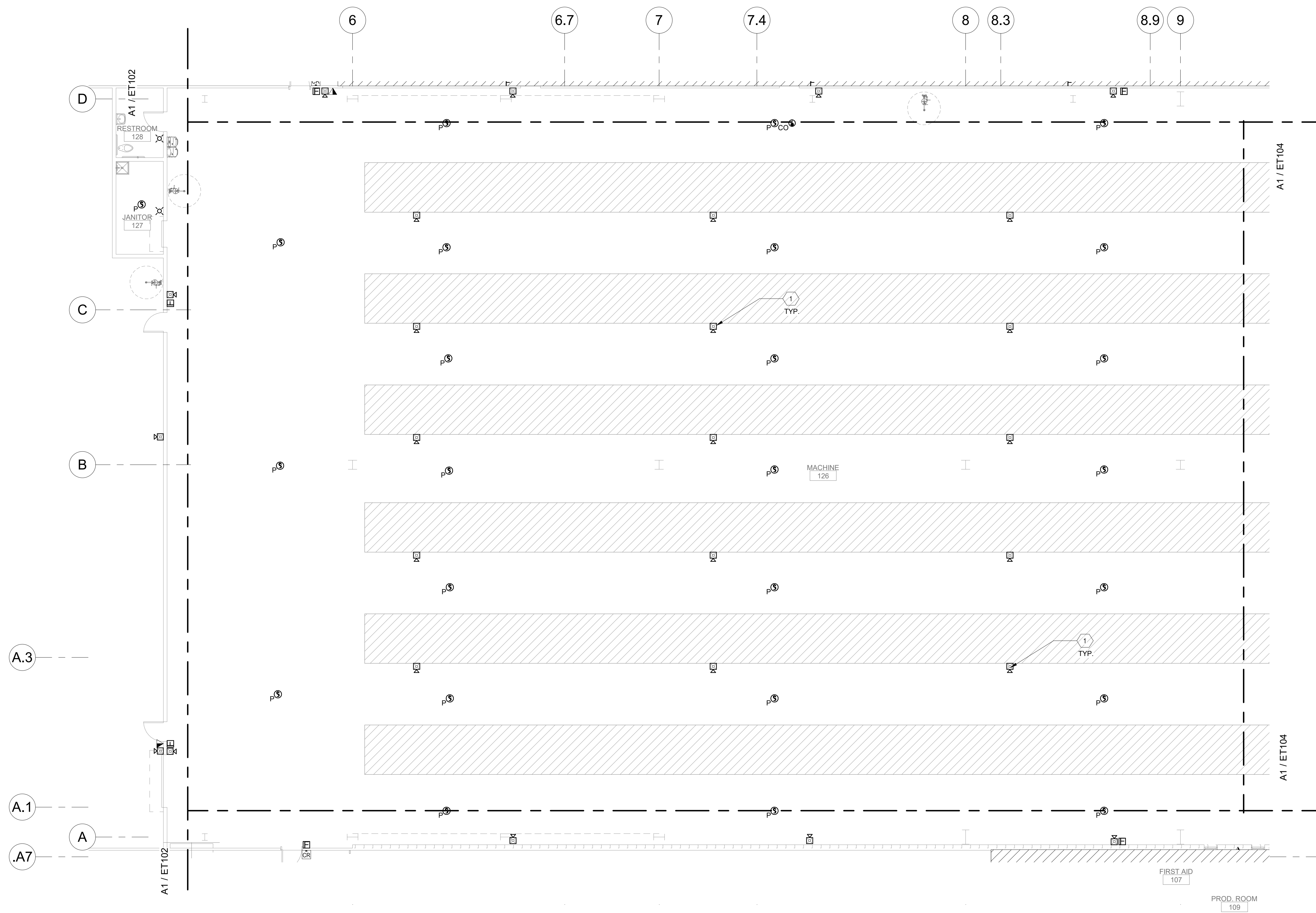
SHEET TITLE

**SPECIAL SYSTEMS
FLOOR PLAN -
AREA A COMP.**

SHEET NUMBER

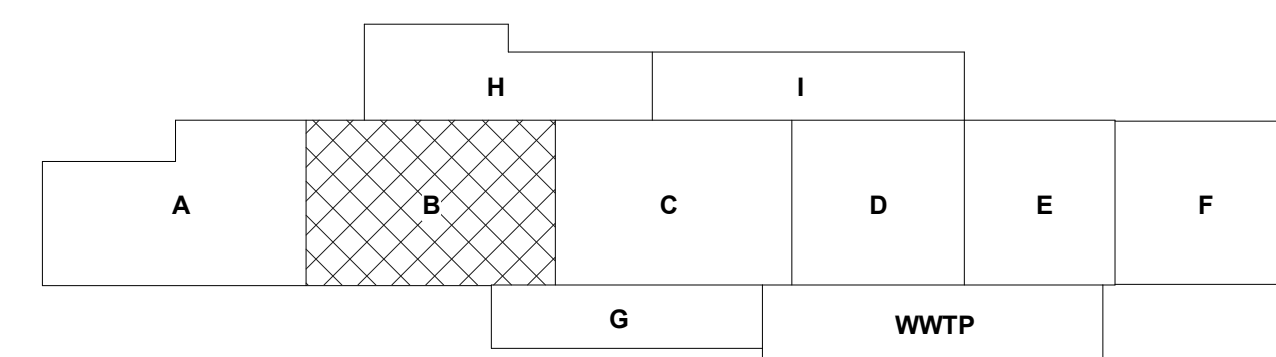
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(A1) SPECIAL SYSTEMS FIRST FLOOR PLAN - AREA B FACTORY
1/8" = 1'-0"

$1/8" = 1'-0"$



KEY PLAY

FIRE ALARM SYSTEM GENERAL NOTES

SCOPE OF WORK: PROVIDE A NEW FIRE ALARM SYSTEM COMPATIBLE WITH THE EXISTING CAMPUS NOTIFIER SYSTEM. PROVIDE MODIFICATIONS AS REQUIRED TO THE EXISTING ADDRESSABLE FIRE ALARM SYSTEMS IN THE EXISTING BUILDINGS TO ACCOMMODATE CAMPUS NETWORKING. COORDINATE IN FIELD AND PROVIDE ALL COMPONENTS NECESSARY.

- PROVIDE A CODE COMPLIANT, NICET LEVEL III DESIGN TO BE APPROVED BY THE FIRE MARSHAL.
- PERFORM REQUIRED CALCULATIONS AND FIELD COORDINATION.

- FIRE ALARM SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 72. NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO SHOP SUBMITTAL.

- A. HEAT DETECTORS MAY BE OMITTED FROM NON-COMBUSTIBLE SPACES AND FROM CONCEALED COMBUSTIBLE SPACES PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM.

- B. HEAT DETECTORS MAY BE USED IN LIEU OF SMOKE DETECTORS IN THE FOLLOWING AREAS:
1. MECHANICAL, ELECTRICAL AND STORAGE ROOMS
 2. NEAR SHOWER ROOMS OR OTHER AREAS THAT PRODUCE STEAM
 3. CLOSETS AND SMALL STORAGE ROOMS (100 SQUARE FEET IN AREA OR LESS), OR OTHER SMALL UNCONDITIONED SPACES.

- C. PROVIDE FIRE ALARM AND DEDICATED 120V CONNECTION TO ALL FIRE DAMPERS INDICATED ON MECHANICAL DRAWINGS. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS. PROVIDE CONTROL RELAY 120V COIL, 10 AMP CONTACT CONTROLLED BY FIRE ALARM PANEL.

- D. FIRE ALARM SUPERVISION IS REQUIRED FOR ALL FIRE ALARM AND FIRE SPRINKLER FLOW ALARMS AND TAMPER SWITCHES PER NFPA 72 BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH CBC CHAPTER 9.
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- J. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 9' MAXIMUM FROM FINISHED FLOOR.

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- L. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

- M. COORDINATE THE COLOR OF THE NEW DEVICES TO MATCH THE EXISTING DEVICES ON SITE.

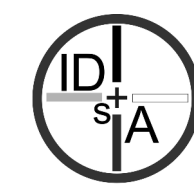
- N. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SHEET KEYNOTES

1. FIRE ALARM DEVICE MOUNTED ON FACTORY LINE EQUIPMENT BE PROVIDED BY RHINO HEALTH VENDOR. NOT IN CONTRACT.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
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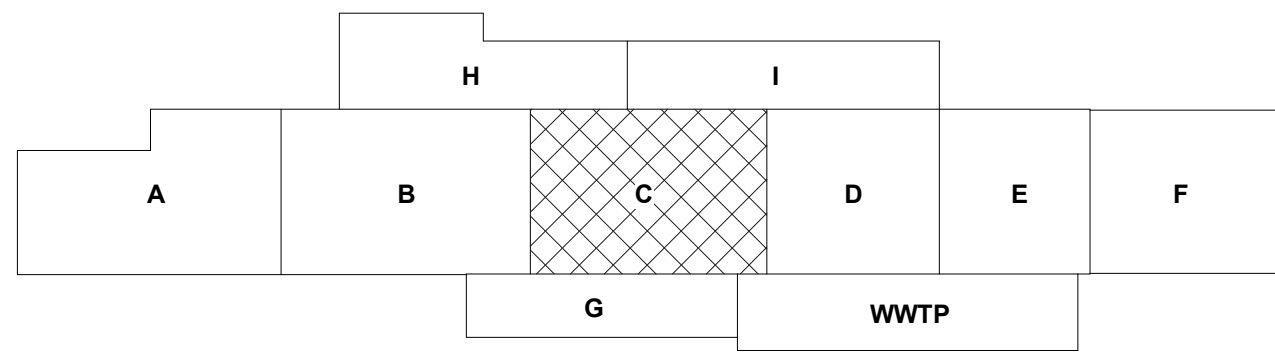
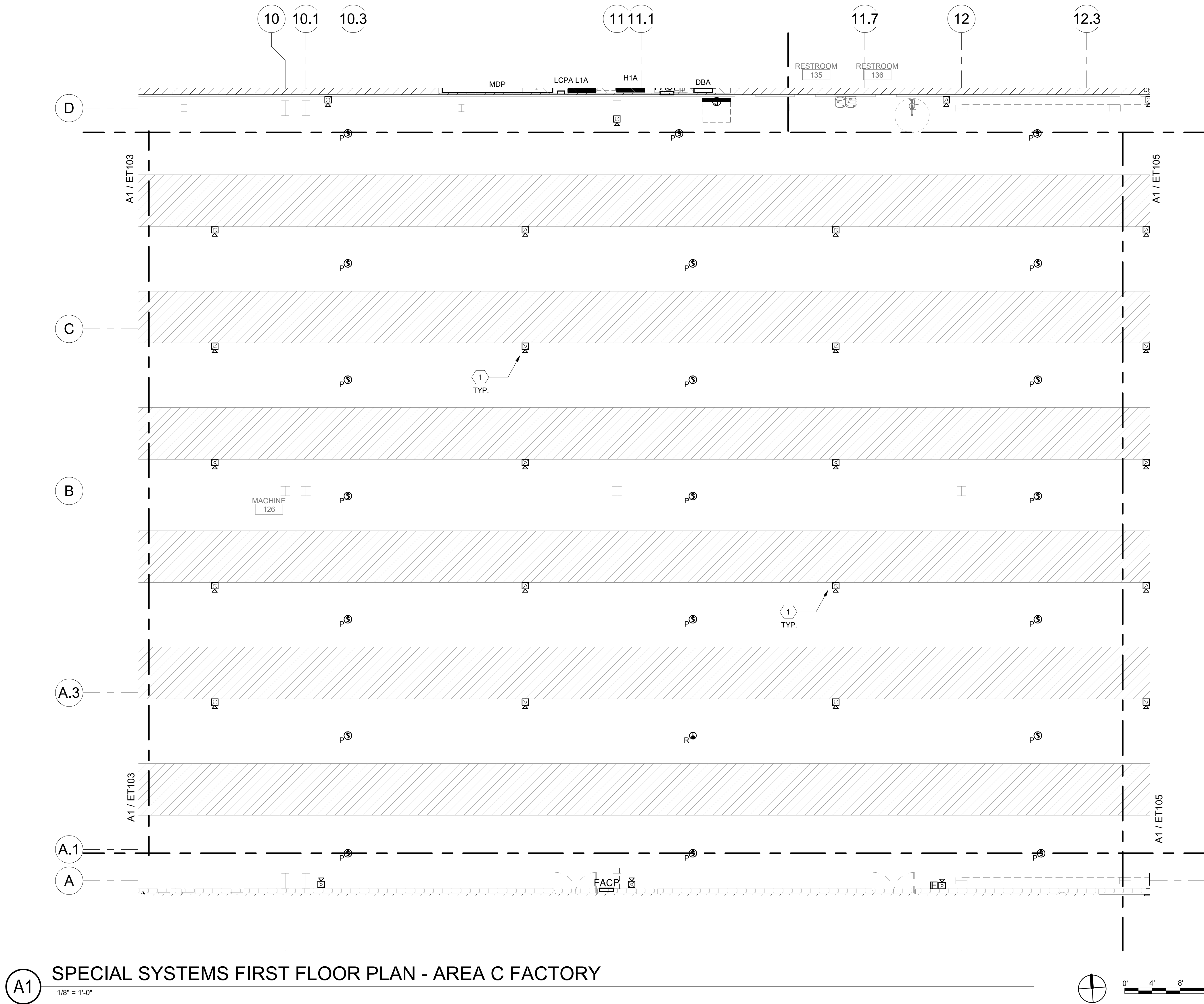
**SPECIAL SYSTEMS
FLOOR PLAN -
AREA B FACTORY**

SHEET NUMBER

ET103

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FIRE ALARM SYSTEM GENERAL NOTES

- SCOPE OF WORK: PROVIDE A NEW FIRE ALARM SYSTEM COMPATIBLE WITH THE EXISTING CAMPUS NOTIFIER SYSTEM. PROVIDE MODIFICATIONS AS REQUIRED TO THE EXISTING ADDRESSABLE FIRE ALARM SYSTEMS IN THE EXISTING BUILDINGS TO ACCOMMODATE CAMPUS NETWORKING. COORDINATE IN FIELD AND PROVIDE ALL COMPONENTS NECESSARY.
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SHEET KEYNOTES

1. FIRE ALARM DEVICE MOUNTED ON FACTORY LINE EQUIPMENT WILL BE PROVIDED BY RHINO HEALTH VENDOR. NOT IN CONTRACT.

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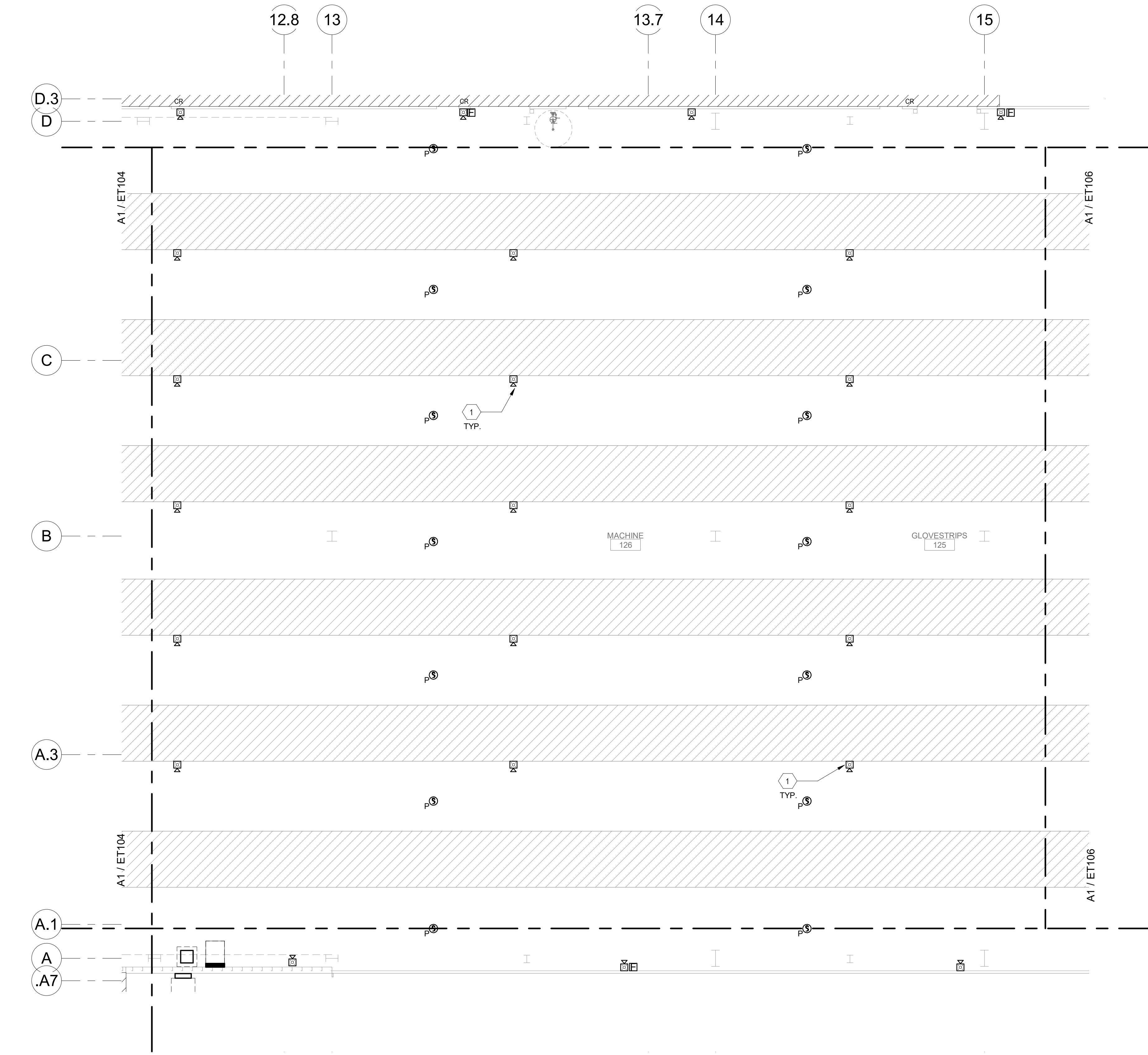
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**SPECIAL SYSTEMS
FLOOR PLAN -
AREA C FACTORY**

SHEET NUMBER

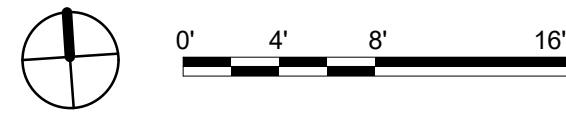
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(A1) SPECIAL SYSTEMS FIRST FLOOR PLAN - AREA D FACTORY
1/8" = 1'-0"

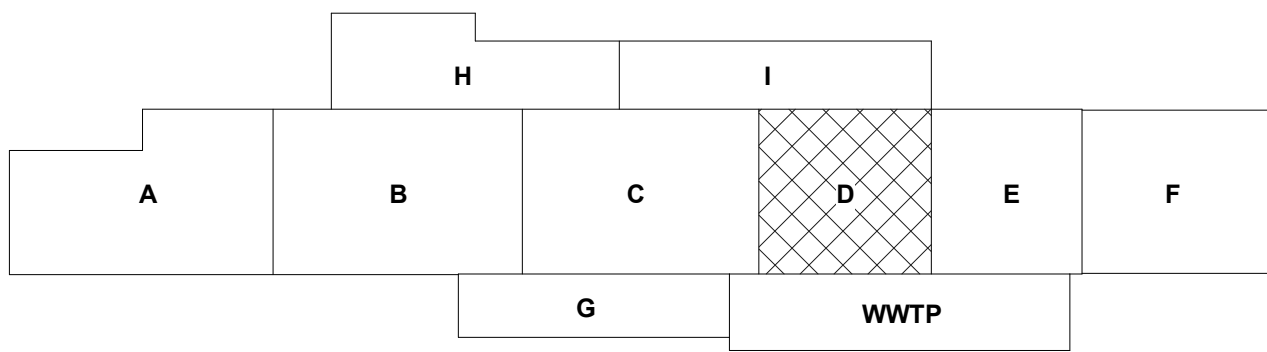


FIRE ALARM SYSTEM GENERAL NOTES

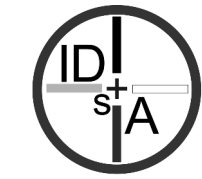
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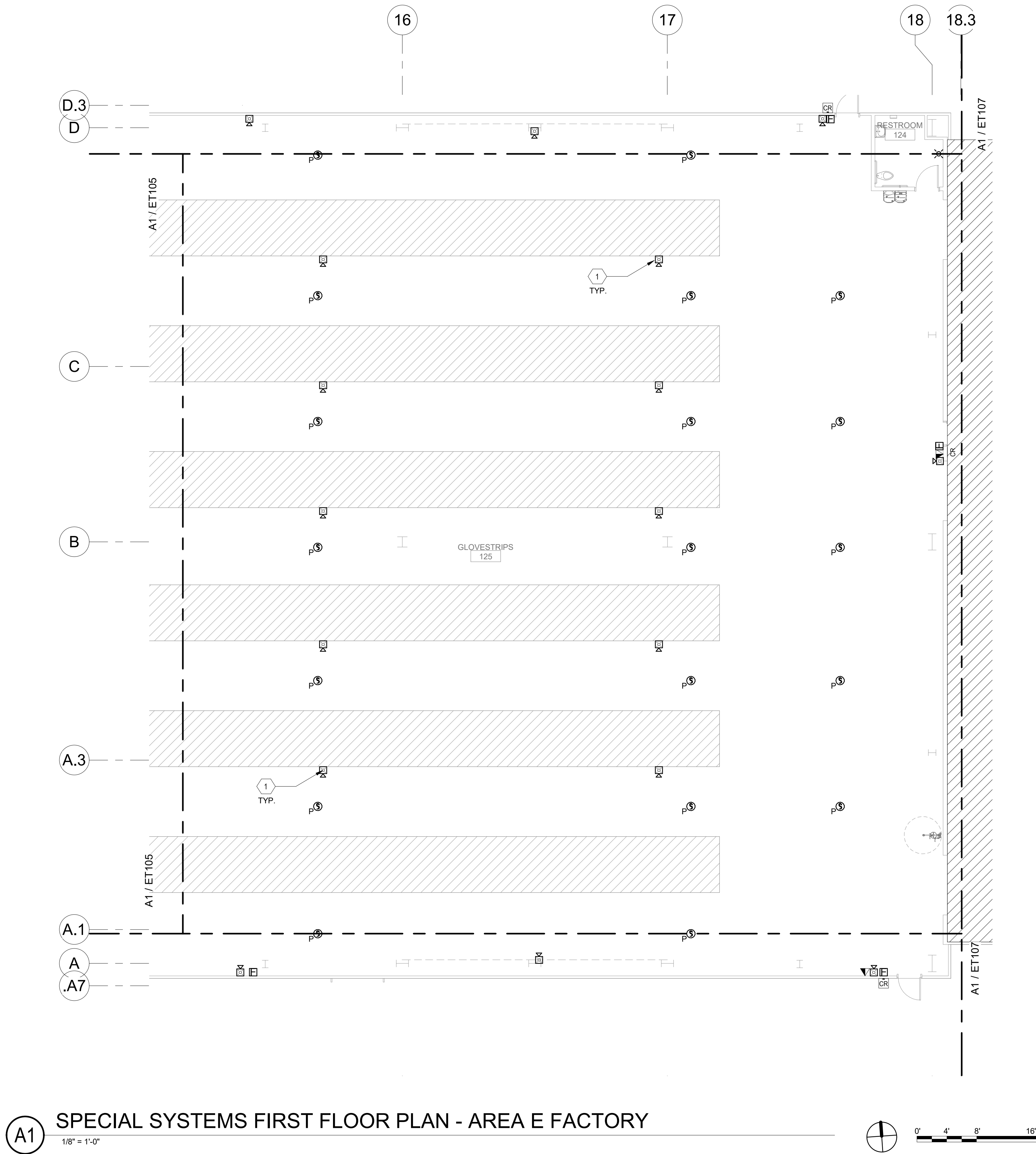
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SPECIAL SYSTEMS
FLOOR PLAN -
AREA D FACTORY

SHEET NUMBER

ET105

Sequence of



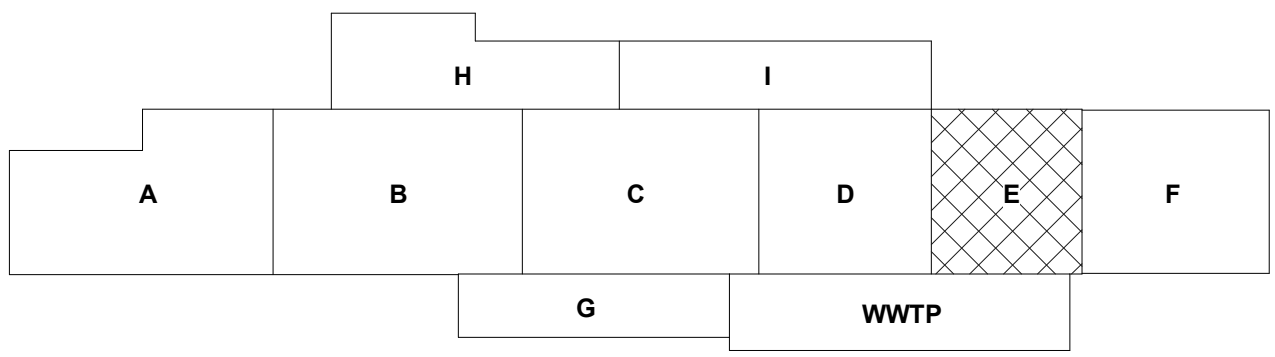
A1 SPECIAL SYSTEMS FIRST FLOOR PLAN - AREA E FACTORY
1/8" = 1'-0"

FIRE ALARM SYSTEM GENERAL NOTES

- SCOPE OF WORK: PROVIDE A NEW FIRE ALARM SYSTEM COMPATIBLE WITH THE EXISTING CAMPUS NOTIFIER SYSTEM. PROVIDE MODIFICATIONS AS REQUIRED TO THE EXISTING ADDRESSABLE FIRE ALARM SYSTEMS IN THE EXISTING BUILDINGS TO ACCOMMODATE CAMPUS NETWORKING. COORDINATE IN FIELD AND PROVIDE ALL COMPONENTS NECESSARY.
- PROVIDE A CODE COMPLIANT, NICET LEVEL III DESIGN TO BE APPROVED BY THE FIRE MARSHAL.
 - PERFORM REQUIRED CALCULATIONS AND FIELD COORDINATION.
 - FIRE ALARM SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO SHOP DRAWING SUBMITTAL.
- A. HEAT DETECTORS MAY BE OMITTED FROM NON-COMBUSTIBLE SPACES AND FROM CONCEALED FIRE SPRINKLER SYSTEM.
- B. HEAT DETECTORS MAY BE USED IN LIEU OF SMOKE DETECTORS IN THE FOLLOWING AREAS:
1. MECHANICAL, ELECTRICAL AND STORAGE ROOMS
 2. NEAR SHOWER ROOMS OR OTHER AREAS THAT PRODUCE STEAM
 3. CLOSETS AND SMALL STORAGE ROOMS (100 SQUARE FEET IN AREA OR LESS), OR OTHER SMALL UNCONDITIONED SPACES.
- C. PROVIDE FIRE ALARM AND DEDICATED 120V CONNECTION TO ALL FIRE DAMPERS INDICATED ON MECHANICAL DRAWINGS. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS. PROVIDE CONTROL RELAY, 120V COIL, 10 AMP CONTACT CONTROLLED BY FIRE ALARM PANEL.
- D. FIRE ALARM SUPERVISION IS REQUIRED FOR ALL FIRE ALARM AND FIRE SPRINKLER FLOW ALARMS AND TAMPER SWITCHES PER NFPA 72 BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH CBC CHAPTER 9.
- E. ADDITIONAL MATERIALS AND LABOR REQUIRED TO SUPPORT CHANGES REQUESTED BY THE AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- F. ALL NOTIFICATION AND SIGNALING DEVICES SHALL BE RECESSED INTO WALLS IN FINISHED AREAS. SURFACE MOUNTED IN SOUND STAGE AREA.
- G. WHERE APPLICABLE DO NOT INSTALL SMOKE DETECTORS IN A DIRECT AIR FLOW OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
- H. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY THE ENGINEER.
- I. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
- J. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
- K. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
- L. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- M. COORDINATE THE COLOR OF THE NEW DEVICES TO MATCH THE EXISTING DEVICES ON SITE.
- N. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

SHEET KEYNOTES

1. FIRE ALARM DEVICE MOUNTED ON FACTORY LINE EQUIPMENT WILL BE PROVIDED BY RHINO HEALTH VENDOR. NOT IN CONTRACT.



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CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
FEBRUARY 16, 2022
OWNER: NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

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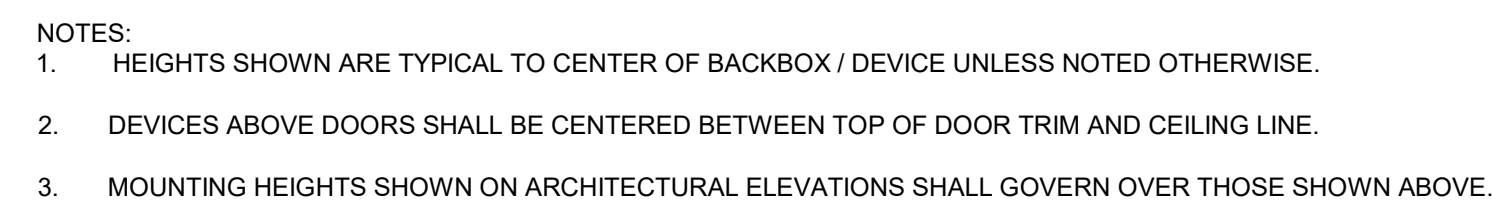
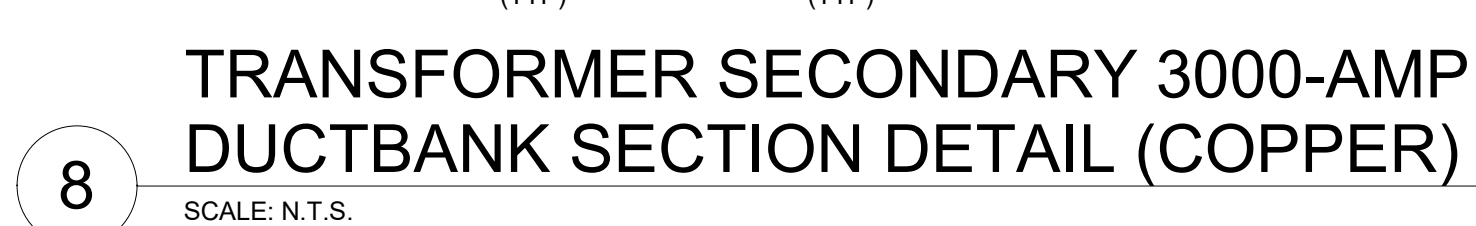
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SHEET TITLE
SPECIAL SYSTEMS FLOOR PLAN - AREA E FACTORY

SHEET NUMBER

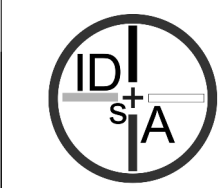
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SHEET TITLE

ELECTRICAL DETAIL SHEET

SHEET NUMBER

E-501

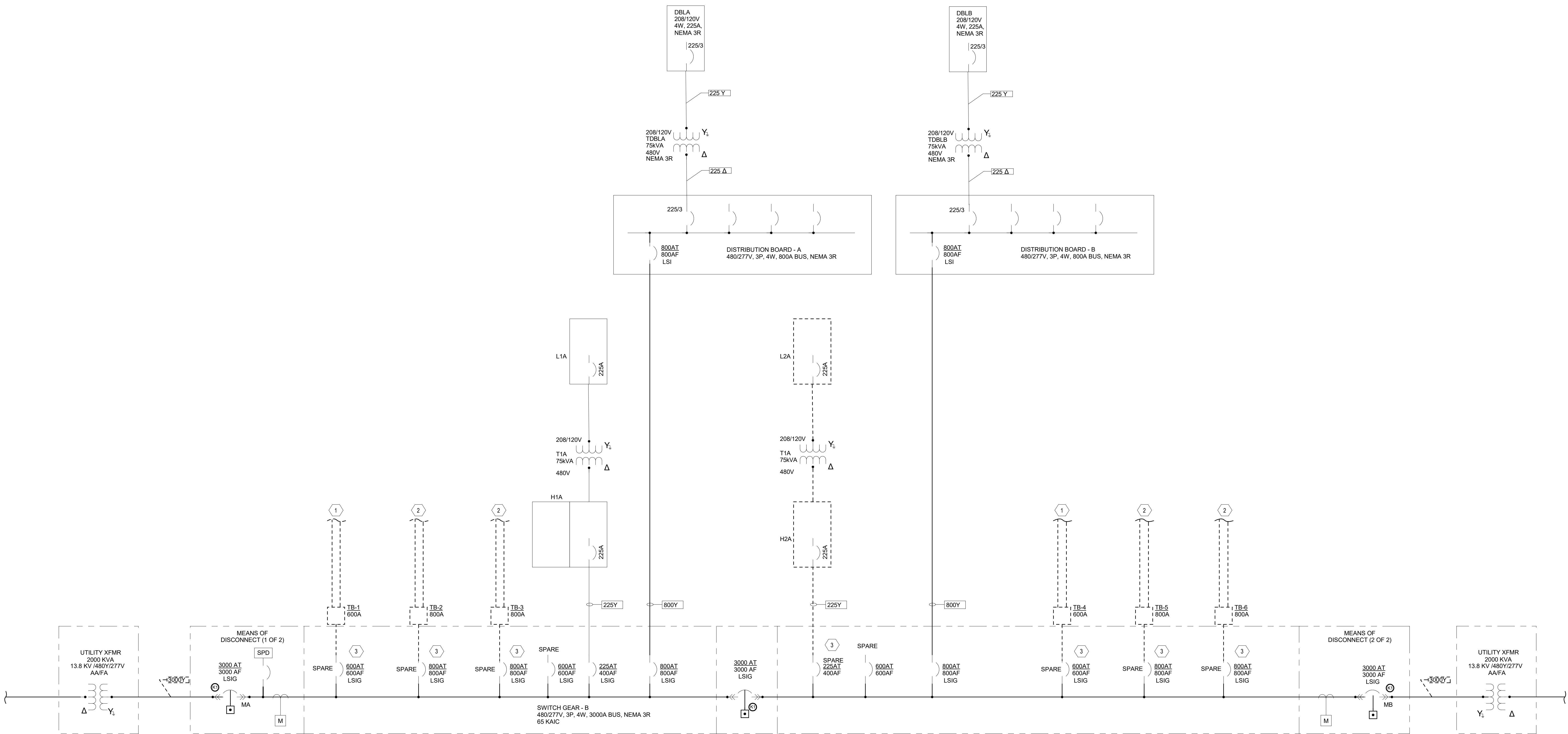
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A1

ELECTRICAL ONE LINE DIAGRAM - CHURCH ROCK PHASE II FACTORY

SCALE: 3/32" = 1'-0"



CHURCH ROCK PHASE II ELECTRICAL ESTIMATED LOAD DEMAND BASED ON HISTORICAL DATA (NEC 430.26)					
FACILITY 12 MO. PEAK DEMAND (COG):	HP	KW	KVA	AMPS (P 480V, 3PH)	AMPS/HP
PHASE I PRODUCTION LINE (EXISTING):					
LINE TOTAL MOTOR HP:	95.6				
LINE 1 METER READING (6/16/21)				59	
LINE 2 METER READING (6/16/21)				58	
TOTAL METERED LOAD				117	
LOAD/HP FACTOR					1.22
PHASE II PRODUCTION LINE (NEW):					
DOUBLE LINES (EA)	374				
4 LINES	1496				
SINGLE LINES (EA)	283				
2 LINES	566				
TOTAL	2062				
TOTAL HP x FACTOR (NEC 430.26)		2018.86	2523.58		
LIGHTING (NEC 220.12: 2VA/5F)	116180	185.89	232.36		
MECHANICAL (10 VA/5F)	116180	929.44	1161.8		
WASTE WATER TREATMENT (15 VA/5F)	11576	138.91	173.64		
MISC. SUPPORT EQUIPMENT (5 VA/5F)	116180		580.9		
TOTAL LOAD		3106.13	3882.66	4672.28	

GENERAL NOTES

- SEE ES-101 FOR CONTINUATION OF UG PRIMARY FROM UTILITY COMPANY.
- BUS DUCTS TO BE NEMA 3R TYPICAL.
- EQUIPMENT INDICATED IN DASHED LINE TYPE IS TO BE PROVIDED AS PART OF PHASE III CONSTRUCTION.

SHEET KEYNOTES

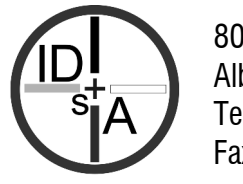
- PHASE III - 600A PLUG IN NEMA 3R BUS DUCT. BUS DUCT WILL BE PROVIDED IN PHASE III.
- PHASE III - 800A PLUG IN NEMA 3R BUS DUCT. BUS DUCT WILL BE PROVIDED IN PHASE III.
- PHASE III - SPARE CIRCUIT BREAKER - SIZE AS NOTED.

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO
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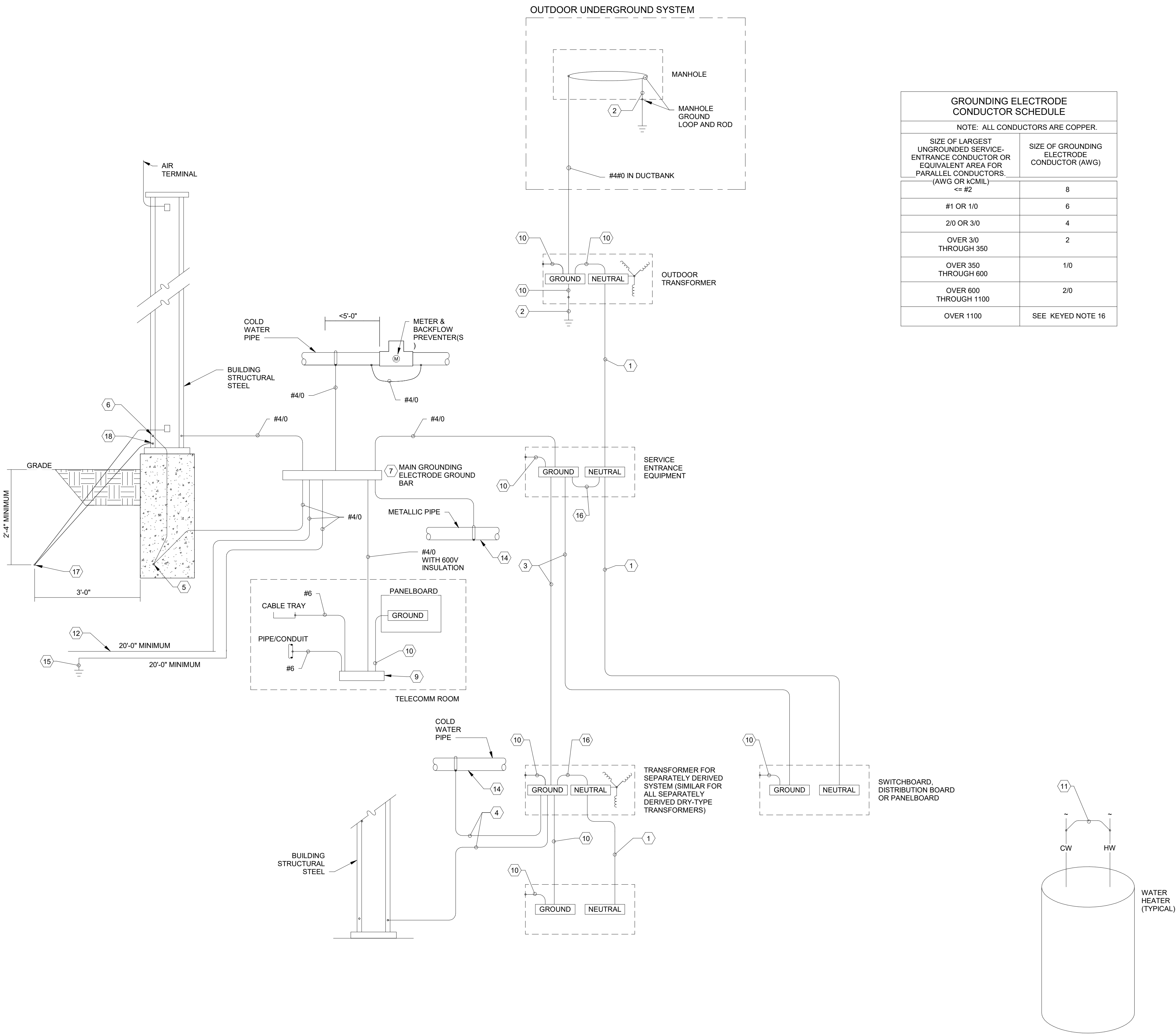
SHEET TITLE

ELECTRICAL
DIAGRAMS

SHEET NUMBER

E-601

Sequence of



GROUNDING ELECTRODE CONDUCTOR SCHEDULE	
NOTE: ALL CONDUCTORS ARE COPPER.	
SIZE OF LARGEST UNGROUNDED SERVICE-ENTRANCE CONDUIT OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS. (AWG OR KCMIL)	SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG)
<= #2	8
#1 OR 1/0	6
2/0 OR 3/0	4
OVER 3/0 THROUGH 350	2
OVER 350 THROUGH 600	1/0
OVER 600 THROUGH 1100	2/0
OVER 1100	SEE KEYED NOTE 16

- GENERAL NOTES
- INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
 - INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO SERVICE ENTRANCE EQUIPMENT GROUND BUS USING NEC TABLE 250.102 (C)(1).
 - INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED EQUAL TO EQUIPMENT GROUNDING CONDUCTOR.
 - BOND ELECTRICAL EQUIPMENT ENCLOSURES TO GROUND BAR USING SAME SIZE CONDUCTOR AS FEEDER EQUIPMENT GROUND CONDUCTOR OR FACTORY PROVIDED GREEN SCREW.
 - CLEAN COATED RE-BAR PRIOR TO PERFORMING ELECTRICAL CONNECTIONS.

- SHEET KEYNOTES
- REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE FOR GROUNDED CONDUCTOR SIZE.
 - CONNECT GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD.
 - FOR EQUIPMENT GROUNDING CONDUCTOR SIZE REFER TO ONE-LINE DIAGRAM AND FEEDER SCHEDULE.
 - PROVIDE GROUNDING ELECTRODE CONDUCTOR SIZE BASED ON THE CONDUCTOR SIZE OF THE SECONDARY OF THE TRANSFORMER. SIZE PER NEC 250.66 AND PER SCHEDULE ON THIS SHEET.
 - PROVIDE A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION IN ACCORDANCE WITH NEC 250.52 (A)(3).
 - BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE EXOTHERMIC WELDS.
 - PROVIDE A 1/4" X 4" X 12" MAIN GROUNDING ELECTRODE GROUND BAR FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION.
 - USE THE "MAIN GROUNDING ELECTRODE GROUND BAR" INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVER CURRENT DEVICE FOR THE SEPARATELY DERIVED SYSTEM IS WITHIN SAME ROOM OF THE "MAIN GROUNDING ELECTRODE GROUND BAR".
 - INSTALL A 1/4" X 4" COPPER "TELECOMMUNICATIONS GROUNDING BUSBAR" IN EACH TELECOMMUNICATIONS ROOM. CONNECT CABLES TO THE "TELECOMMUNICATIONS GROUNDING BUSBAR" USING COMPRESSION SPADE LUGS. LABEL CONDUCTORS PER ANSI-JSTD-607-A. LABEL EACH CONNECTION. SEE PLAN FOR BAR LENGTH AND LOCATIONS.
 - BONDING JUMPER SIZED PER GROUNDING ELECTRODE CONDUCTOR SCHEDULE THIS SHEET.
 - BOND HOT WATER PIPE TO COLD WATER PIPE AT EACH WATER HEATER WITH A #8 BARE COPPER CONDUCTOR.
 - PROVIDE A GROUND RING PER NEC 250.52 A.4.
 - BOND ALL METALLIC PIPING SYSTEMS WITHIN STRUCTURE.
 - PROVIDE A GROUNDING ELECTRODE SYSTEM PER 2014 NMEC.
 - MAIN BONDING JUMPER AND/OR SYSTEM BONDING JUMPER SIZE BASED ON UNGROUNDED CONDUCTOR SIZE AND GROUNDING ELECTRODE CONDUCTOR SCHEDULE ON THIS SHEET UNLESS UNGROUNDED CONDUCTOR SIZE OR EQUIVALENT IS GREATER THAN 1100 KCMIL. IF GREATER THAN 1100 KCMIL (OR 1750 KCMIL FOR ALUMINUM) SIZE JUMPER PER NEC TABLE 250.102 (C)(1).
 - LIGHTNING PROTECTION COUNTERPOISE - #4/0 BARE COPPER.
 - BOND EACH CORNER STRUCTURAL STEEL AND PERIMETER STRUCTURAL STEEL AT NO MORE THAN 50 FOOT SPACING TO THE LIGHTNING PROTECTION COUNTERPOISE.
 - COVER THE EXTERIOR LIGHTNING PROTECTION DOWN CONDUCTOR WITH NON-CONDUCTIVE MATERIAL FROM THE FINAL GRADE TO 8' ABOVE FINISHED FLOOR.

CHURCH ROCK PHASE II FACTORY
CHURCH ROCK, NEW MEXICO
50% CONSTRUCTION DOCUMENTS
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SHEET TITLE
GROUNDING
DIAGRAM

SHEET NUMBER
E-602
Sequence of

ELECTRICAL LUMINAIRE SCHEDULE				
Type	Description	Mounting	Emer Battery Pack	MFR/Model
AL	30" ROUND HIGH BAY LUMINAIRE. WET LOCATION RATED. HIGH ENERGY EFFICIENT.	CEILING SURFACE/SUSPENDED	NONE	GE CURRENT ALBEO #ABR2-0-15-H-48-ID-QV-X-X-X-W
AL2	4" SEALED LED LINEAR LUMINAIRE; WET LISTED; IP67 & NEMA 4X SPLASH ZONE RATING; 0-10V DIMMING	CEILING SURFACE/SUSPENDED	NONE	GE CURRENT ALBEO #ALR2-0-4T-05-T-48-1D-S-Q-V-Q-X-X-Q-W
AL3	4" SEALED LED LINEAR LUMINAIRE; WET LISTED; IP67 & NEMA 4X SPLASH ZONE RATING; 0-10V DIMMING	CEILING SURFACE/SUSPENDED	NONE	GE CURRENT ALBEO #ALR2-0-4T-10-T-48-1D-S-Q-V-Q-X-X-Q-W
ALH	HAZARDOUS LOCATION HIGHBAY; 0-10V DIMMING	CEILING SURFACE/SUSPENDED	NONE	HAZLUX #SMR6-CUT-GY-40-AC-HL-U-X
EM	LED EMERGENCY LUMINAIRE; UV STABILIZED THERMOPLASTIC BODY; SELF DIAGNOSTICS	CEILING SURFACE/WALL	YES	LIGHTALARMS #LCA-2RHL-ID
EMB	NEMA-4X SEALED LED EMERGENCY LUMINAIRE; SELF DIAGNOSTICS	CEILING SURFACE/WALL	YES	LIGHTALARMS #2-V12N2-LD10-X-D
EMC	HAZARDOUS LOCATION LED EMERGENCY LUMINAIRE; SELF DIAGNOSTICS	CEILING SURFACE/WALL	YES	LIGHTALARMS #SPH12-2-L15-ID
EX	LED EMERGENCY/ EXIT COMBO LUMINAIRE; UV STABILIZED THERMOPLASTIC BODY; SELF DIAGNOSTICS	CEILING SURFACE/WALL	YES	LIGHTALARMS #LAXC-RLP
EXB	NEMA-4X SEALED LED EMERGENCY/ EXIT COMBO LUMINAIRE; SELF DIAGNOSTICS	CEILING SURFACE/WALL	YES	LIGHTALARMS #WW-XV12E-1/2-R-D-4X/X-LD10
EXC	HAZARDOUS LOCATION LED EMERGENCY/ EXIT COMBO LUMINAIRE; SELF DIAGNOSTICS	CEILING SURFACE/WALL	YES	LIGHTALARMS #GG-XVH12N-R-D-X-LD10
PHASE II PHASE III L2	4" GENERAL PURPOSE LED STRIP FIXTURE, DIE FORMED STEEL HOUSING, BAKED WHITE ENAMEL FINISH, WITH DIFFUSING LENS.	CEILING SURFACE/SUSPENDED	NONE	GE CURRENT#ALV2-0-4T-06-T-48-1D-S-Q-V-Q-ST-K-Q-W METALUX #4SNLED-LD5-47SL-LW-UNV-L835-CD1-U COLUMBIA #LCL4-35-ML-EDU LITHONIA #ZL1N-L48-5000LM-FST-MVOLT-35K 80CRI-W
L2E	4" GENERAL PURPOSE LED STRIP FIXTURE, DIE FORMED STEEL HOUSING, BAKED WHITE ENAMEL FINISH, WITH DIFFUSING LENS.	CEILING SURFACE/SUSPENDED	NONE	GE CURRENT#ALV2-0-4T-06-T-48-1D-S-Q-V-E-ST-K-Q-W METALUX #4SNLED-LD5-47SL-LW-UNV-L835-CD1-U COLUMBIA #LCL4-35-ML-EDU LITHONIA #ZL1N-L48-5000LM-FST-MVOLT-35K 80CRI-WH
L8	6" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED. HIGH ENERGY EFFICIENT.	RECESSED	NONE	GE CURRENT#HLRC-6R-B-0-15-WD-SD-CL-WT-8-35-VQ/ FRAME6R HALO #PD6-15-ED010-PDM6A-835-61V-H SPECTRUM #SGE8LEDOS-20L-35K-DS10-2-BH27-AR6223OS-SG-FG LITHONIA #LDN6-35/15-LO6-AR-277
L8E	6" ROUND ARCHITECTURAL LED DOWN LIGHT. WET LOCATION RATED. HIGH ENERGY EFFICIENT.	RECESSED	NONE	GE CURRENT#HLRC-6R-B-0-15-WD-SD-CL-WT-8-35-VQ-EL/ FRAME6R HALO #PD6-15-ED010-PDM6A-835-61V-H SPECTRUM #SGE8LEDOS-20L-35K-DS10-2-BH27-AR6223OS-SG-FG LITHONIA #LDN6-35/15-LO6-AR-277
L15	LED VANITY LIGHT. HORIZONTALLY MOUNTED +7'-6" AFF.	WALL MOUNTED	NONE	ACCESS LIGHTING#62506LEDD-B5/FST METALUX #24CZ-LD5-35-UNV-L835-CD1 COLUMBIA #LCAT24-35MWG-EDU LITHONIA #2BLT4-30L-ADP-EZ1-LP835
L22	2' x 2' ARCHITECTURAL LED HIGH ENERGY EFFICIENT LUMINAIRE. WIDE DISTRIBUTION, RECESSED, LOW PROFILE	RECESSED	NONE	GE CURRENT#HLPL-22-C-0-3X-MM-8-VQ-LT-WHITE METALUX #22CZ-LD5-29-UNV-L835-CD1-U COLUMBIA #LCAT22-35-LW-G-EDU LITHONIA #2BLT2-33L-ADP-EZ1-LP835
L22E	2' x 2' ARCHITECTURAL LED HIGH ENERGY EFFICIENT. EMERGENCY BATTERY PACK. LUMINAIRE. WIDE DISTRIBUTION, RECESSED, LOW PROFILE	RECESSED	NONE	GE CURRENT#HLPL-22-C-0-3X-MM-8-VQ-LT-WHITE/ EMBB METALUX #22CZ-LD5-29-UNV-EL14W-L835-CD1-U HE WILLIAMS #LT-2-2-L27-B-35-AF-EM/12W-DIM-UNV COLUMBIA #LCAT22-35-LW-G-EDU-ELL14 LITHONIA #2BLT2-33L-ADP-EZ1-LP835-EL14L
L24	2' x 4' ARCHITECTURAL LED HIGH ENERGY EFFICIENT LUMINAIRE. WIDE DISTRIBUTION, RECESSED, LOW PROFILE. WET AREA RATED.	RECESSED	NONE	GE CURRENT#HLPL-24-C-0-4X-MM-8-VQ-LT-WHITE METALUX #24CZ-LD5-35-UNV-L835-CD1 COLUMBIA #LCAT24-35MWG-EDU LITHONIA #2BLT4-30L-ADP-EZ1-LP835
L24A	2' x 4' ARCHITECTURAL LED HIGH ENERGY EFFICIENT LUMINAIRE. WIDE DISTRIBUTION, RECESSED, LOW PROFILE. WET AREA RATED.	RECESSED	NONE	LSI #GA24-SS-WW-UE-P12.125(INVERTED)-DOOR GASKETING METALUX #24GR-LD4-48-F1(INVERTED)-UNV-L835-CD1-G1-U COLUMBIA #LLT24-35MLG-FSA12F(INVERTED)-EDU-G1 LITHONIA #2GTL-4-48L-(INVERTED)-EZ1-LP835-ABC
SL1	SINGLE HEAD, POLE MOUNTED LED AREA LUMINAIRE; DARK SKY COMPLIENT; TYPE III DISTRIBUTION; MOUNTED ON 30' RSS POLE	POLE	NONE	LSI #MRS-LED-18L-SIL-3-UNV-DIM-40-70CRI-FINISH-X
SL2	DOUBLE HEAD, POLE MOUNTED LED AREA LUMINAIRE; DARK SKY COMPLIENT; TYPE III DISTRIBUTION; MOUNTED ON 30' RSS POLE	POLE	NONE	LSI (2X) #MRS-LED-18L-SIL-3-UNV-DIM-40-70CRI-FINISH-X
PHASE III PHASE II VL1	WALL MOUNTED LED AREA LUMINAIRE; DARK SKY COMPLIENT; TYPE FORWARD THROW DISTRIBUTION	WALL MOUNTED	NONE	LSI #XWM-FT-LED-12L-40-UE-FINISH-X
VL1E	WALL MOUNTED LED AREA LUMINAIRE; DARK SKY COMPLIENT; TYPE FORWARD THROW DISTRIBUTION; INTEGRAL EMERGENCY BATTERY BACK-UP	WALL MOUNTED	YES	LSI #XWM-FT-LED-12L-40-UE-FINISH-X-BB
X	LED EXIT LUMINAIRE; UV STABILIZED THERMOPLASTIC BODY; SELF DIAGNOSTICS	CEILING SURFACE/WALL	YES	LIGHTALARMS #QLXN500-RN-ID
XB	NEMA-4X SEALED LED EXIT LUMINAIRE; SELF DIAGNOSTICS	CEILING SURFACE/WALL	YES	LIGHTALARMS #WW-XVE-1/2-R-D-4X
LUMINAIRE SCHEDULE NOTES: 1. MANUFACTURERS CATALOG NUMBERS REPRESENT MANUFACTURER SERIES. SHOP DRAWING SUBMITTALS WILL INCLUDE ALL PART NUMBERS REPRESENTING ALL ITEMS OF THIS LUMINAIRE SCHEDULE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER LUMINAIRES TO INCLUDE ALL PARTS INDICATED ON SCHEDULE FOR EACH LUMINAIRE. SUBMITTAL WILL CALL OUT EACH PART CLEARLY. 2. LUMINAIRE REQUIRES MOUNTING COORDINATION WITH ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK. THIS LUMINAIRE MAY REQUIRE A HIGHER OR LOWER MOUTING FROM THAT PROVIDED ON THIS SCHEDULE OR NOTES ON PLAN DUE TO ARCHITECTURAL REQUIREMENTS OR CONSTRUCTION CONDITIONS. 3. ALL LUMINAIRES ON THIS LUMINAIRE SCHEDULED ARE APPROVED FOR BID ON THIS PROJECT.				

CHURCH ROCK PHASE II FACTORY


CHURCH ROCK, NEW MEXICO

50% CONSTRUCTION DOCUMENTS

FEBRUARY 16, 2022

OWNER:
NAVAJO NATION DIVISION OF ECONOMIC DEVELOPMENT

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SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER

E-701

Sequence of

Switchboard: MDP

Location:		Volts: 480/277 Wye			A.I.C. Rating:		
Supply From:		Phases: 3			Mains Type:		
Mounting:		Wires: 4			Mains Rating:		
Enclosure:					MCB Rating: 3000 A		
Notes:							
CKT		Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	DPA		3	800 A	800 A	116613 VA	
2	DPB		3	800 A	800 A	48724 VA	
3	H1A		3	400 A	20 A	187361 VA	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
						Total Conn. Load:	352698 VA
						Total Amps:	424 A
Legend:							
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals		
Other		956 VA	100.00%	956 VA	Total Conn. Load: 352698 VA		
LTG		25221 VA	125.00%	31526 VA	Total Est. Demand: 355634 VA		
REC		16740 VA	79.87%	13370 VA	Total Conn. Current: 424 A		
NC		152853 VA	100.00%	152853 VA	Total Est. Demand: 428 A		
MTR		156929 VA	100.00%	156929 VA			
Notes:							

Switchboard: DBA

Location: MECH./ELEC. ROOM 134		Volts: 480/277 Wye		A.I.C. Rating:		
Supply From: MDP		Phases: 3		Mains Type:		
Mounting:		Wires: 4		Mains Rating:		
Enclosure:		MCB Rating: 800 A				
Notes:						
CKT	Circuit Description			# of Poles	Trip Rating	Load
1	TDBLA			3	20 A	116613 VA
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
						116613 VA
						140 A
Legend:						
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals	
NC		116613 VA	100.00%	116613 VA	Total Conn. Load: 116613 VA	
					Total Est. Demand: 116613 VA	
					Total Conn.: 140 A	
					Total Est. Demand: 140 A	
Notes:						

Branch Panel: L1A

Location: MECH/ELEC. ROOM 134						Volts: 120/208 Wye				A.I.C. Rating:			
Supply From: T1A						Phases: 3				Mains Type:			
Mounting: Surface						Wires: 4				Mains Rating: 100 A			
Enclosure: Type 1						Spaces: 84				MCB Rating: 1 A			
Notes:													
CKT	Circuit Description		Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1						1080...						REC Room 131-1	2
3	REC Room 131-1		20 A	1			720 VA 1080...		1	20 A		REC Room 131-1, 130-1	4
5	REC Room 131-1, 129, 130-1		20 A	1				1080... 900 VA	1	20 A		REC Room 128, 129, 130-1	6
7	REC Room 130-1, 129		20 A	1	360 VA	900 VA			1	20 A		REC Room 127, 129	8
9	REC MACHINE 126		20 A	1			360 VA 1080...		1	20 A		REC MACHINE 126	10
11	REC MACHINE 126		20 A	1				1080... 900 VA	1	20 A		REC MACHINE 126	12
13	REC MACHINE 126		20 A	1	540 VA	720 VA			1	20 A		REC Room 126, 138-1, 137-1	14
15	REC Room 126, 125-1		20 A	1			900 VA 1080...		1	20 A		REC Room 126, 125-1	16
17	REC Room 124, 125-1		20 A	1				1080... 900 VA	1	20 A		REC GLOVESTrips-1 125-1	18
19	MTR RMS-1 131-1		20 A	1	180 VA	180 VA			1	20 A		MTR	20
21	REC		20 A	1			900 VA 540 VA		1	20 A		REC	22
23	REC		20 A	1				540 VA					24
25													26
27	MTR OH DOOR 129B		20 A	1			180 VA 180 VA		1	20 A		MTR	28
29	NC JANITOR 127 WH-1		20 A	1				120 VA 120 VA	1	20 A		LTG JANITOR 127 CP-1	30
31	LTG JANITOR 127		20 A	1	0 VA	0 VA			1	20 A		LTG RESTROOM 128	32
33	MTR MACHINE 126		20 A	1			180 VA 180 VA		1	20 A		MTR GLOVESTrips-1 125-1	34
35	MTR WAREHOUSE-1 123-1		20 A	1				180 VA 180 VA	1	20 A		MTR WAREHOUSE-1 123-1	36
37	MTR WAREHOUSE-1 123-1 OH DOOR...		20 A	1	180 VA	0 VA			1	20 A		LTG RESTROOM 124	38
39													40
41													42
43													44
45													46
47													48
49													50
51													52
53													54
55													56
57													58
59													60
61													62
63													64
65													66
67													68
69													70
71													72
73													74
75													76
77													78
79													80
81													82
83													84
Total Load:						4140 VA	7380 VA	7080 VA					
Total Amps:						35 A	65 A	63 A					
Legend:													
Load Classification			Connected Load		Demand Factor		Estimated Demand		Panel Totals				
NC			240 VA		100.00%		240 VA		Total Conn. Load: 18600 VA Total Est. Demand: 15230 VA Total Conn. Current: 52 A Total Est. Demand Current: 42 A				
MTR			1620 VA		100.00%		1620 VA						
REC			16740 VA		79.87%		13370 VA						
LTG			0 VA		0.00%		0 VA						
Notes:													

Branch Panel: H1A

Location: MECH/ELEC. ROOM 134						Volts: 480/277 Wye				A.I.C. Rating:				
Supply From: MDP						Phases: 3				Mains Type: MCB				
Mounting: Surface						Wires: 4				Mains Rating: 225 A				
Enclosure: Type 1						Spaces: 84				MCB Rating: 225 A				
Notes:														
CKT	Circuit Description			Notes	Trip	Poles	A	B	C	Poles	Trip	Notes	Circuit Description	CKT
1	NC MACHINE 126				20 A	1	1500...	572 VA					Other	2
3	Other				20 A	1		364 VA	2423...		1	20 A	LTG RMS-2 131-2	4
5	LTG COAGULANT/LATEX...				20 A	1			4030...	1567...	1	20 A	LTG Room 128, 127, 126, 129	6
7	LTG Room 125-2, 126, 125-1				20 A	1	3056...	1400...			1	20 A	LTG GLOVESTRIPS-2 125-2	8
9	LTG GLOVESTRIPS-2 125-2				20 A	1		1600...	1400...		1	20 A	LTG GLOVESTRIPS-2 125-2	10
11	LTG GLOVESTRIPS-2 125-2				20 A	1			1600...	1400...	1	20 A	LTG GLOVESTRIPS-2 125-2	12
13	LTG Room 126, 125-2, 125-1				20 A	1	3044...	3670...			1	20 A	LTG Room 124, 125-1, 125-2	14
15	MTR RMS-1 131-1				20 A	3		840 VA	560 VA		3	20 A	MTR COAGULANT/LATEX...	16
17	--				--	--			840 VA	560 VA	--	--	--	18
19	--				--	--	840 VA	560 VA			--	--	--	20
21	MTR MACHINE 126				20 A	3		840 VA	840 VA		3	20 A	MTR RMS-1 131-1	22
23	--				--	--			840 VA	840 VA	--	--	--	24
25	--				--	--	840 VA	840 VA			--	--	--	26
27	MTR MACHINE 126				20 A	3		560 VA	560 VA		3	20 A	MTR MACHINE 126	28
29	--				--	--			560 VA	560 VA	--	--	--	30
31	--				--	--	560 VA	560 VA			--	--	--	32
33	MTR COAGULANT/LATEX...				20 A	3		840 VA	840 VA		3	20 A	MTR MACHINE 126	34
35	--				--	--			840 VA	840 VA	--	--	--	36
37	--				--	--	840 VA	840 VA			--	--	--	38
39	MTR MACHINE 126				20 A	3		840 VA	0 VA		3	20 A	MTR Room 126, 125-1	40
41	--				--	--			840 VA	0 VA	--	--	--	42
43	--				--	--	840 VA	0 VA			--	--	--	44
45	MTR Room 126, 125-1				20 A	3		0 VA	1152...		3	20 A	MTR GLOVESTRIPS-1 125-1	46
47	--				--	--			0 VA	1152...	--	--	--	48
49	--				--	--	0 VA	1152...			--	--	--	50
51	MTR GLOVESTRIPS-1 125-1				20 A	3		1152...	5762...		3	20 A	MTR GLOVESTRIPS-1 125-1	52
53	--				--	--			1152...	5762...	--	--	--	54
55	--				--	--	1152...	5762...			--	--	--	56
57	T1A				20 A	3		4140...	1500...		1	20 A	NC MACHINE 126	58
59	--				--	--			7380...	1500...	1	20 A	NC MACHINE 126	60
61	--				--	--	7080...	1500...			1	20 A	NC MACHINE 126	62
63	NC MACHINE 126				20 A	1		1500...	1500...		1	20 A	NC MACHINE 126	64
65	NC MACHINE 126				20 A	1			1500...	1500...	1	20 A	NC MACHINE 126	66
67	NC MACHINE 126				20 A	1	1500...	1500...			1	20 A	NC MACHINE 126	68
69	NC MACHINE 126				20 A	1		1500...	1500...		1	20 A	NC MACHINE 126	70
71	NC GLOVESTRIPS-1 125-1				20 A	1			1500...	1500...	1	20 A	NC GLOVESTRIPS-1 125-1	72
73	NC GLOVESTRIPS-1 125-1				20 A	1	1500...	1500...			1	20 A	NC GLOVESTRIPS-1 125-1	74
75	NC GLOVESTRIPS-1 125-1				20 A	1		1500...	1500...		1	20 A	NC GLOVESTRIPS-1 125-1	76
77	NC MACHINE 126				20 A	1			1500...	1500...	1	20 A	NC MACHINE 126	78
79	NC MACHINE 126				20 A	1	1500...	1500...			1	20 A	NC MACHINE 126	80
81	NC MACHINE 126				20 A	1		1500...	1500...		1	20 A	NC MACHINE 126	82
83	LTG				20 A	1			50 VA					84
Total Load:							66351 VA	58955 VA	62055 VA					
Total Amps:							241 A	213 A	226 A					
Legend:														
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals				
Other				956 VA		100.00%		956 VA						
NC				36240 VA		100.00%		36240 VA		Total Conn. Load: 187361 VA				
MTR				108205 VA		100.00%		108205 VA		Total Est. Demand: 190297 VA				
REC				16740 VA		79.87%		13370 VA		Total Conn. Current: 225 A				
LTG				25221 VA		125.00%		31526 VA		Total Est. Demand Current: 229 A				
Notes:														

ET

OT

CT

BT

AT

Branch Panel: DBLA															
Location: MACHINE 126						Volts: 120/208 Wye						A.I.C. Rating:			
Supply From:						Phases: 3						Mains Type:			
Mounting: Surface						Wires: 4						Mains Rating: 225 A			
Enclosure: Type 1						Spaces: 84						MCB Rating: 225 A			
Notes:															
CKT	Circuit Description	Notes	Trip	Poles	A		B		C		Poles	Trip	Notes	Circuit Description	CKT
1	MTR		20 A	3	1390...	1390...					3	20 A		MTR EF-3	2
3	--		--	--			1390...	1390...			--	--		--	4
5	--		--	--					1390...	1390...	--	--		--	6
7	MTR EF-3		20 A	3	1390...	1390...									8
9	--		--	--			1390...								10
11	--		--	--					1390...						12
13	MTR EF-3		20 A	3	1390...	1390...					3	20 A		MTR EF-3	14
15	--		--	--			1390...	1390...			--	--		--	16
17	--		--	--					1390...	1390...	--	--		--	18
19	MTR EF-3		20 A	3	1390...	1390...					3	20 A		MTR EF-3	20
21	--		--	--			1390...	1390...			--	--		--	22
23	--		--	--					1390...	1390...	--	--		--	24
25	MTR		20 A	3	1390...	1390...					3	20 A		MTR	26
27	--		--	--			1390...	1390...			--	--		--	28
29	--		--	--					1390...	1390...	--	--		--	30
31	MTR		20 A	3	1390...	1390...					3	20 A		MTR	32
33	--		--	--			1390...	1390...			--	--		--	34
35	--		--	--					1390...	1390...	--	--		--	36
37	MTR		20 A	3	1390...	1390...					3	20 A		MTR	38
39	--		--	--			1390...	1390...			--	--		--	40
41	--		--	--					1390...	1390...	--	--		--	42
43	MTR		20 A	3	1390...	1390...					3	20 A		MTR	44
45	--		--	--			1390...	1390...			--	--		--	46
47	--		--	--					1390...	1390...	--	--		--	48
49															50
51															52
53															54
55															56
57															58
59															60
61															62
63															64
65															66
67															68
69															70
71															72
73	REC		20 A	1	360 VA	2496...					2	20 A		NC RESTROOM 128 - CEH-2	74
75	NC RESTROOM 124		20 A	2		2496...		0 VA			--	--		--	76
77	--		--	--					0 VA					--	78
79															80
81															82
83															84
					Total Load:	23701 VA	23341 VA	20845 VA							
					Total Amps:	201 A	198 A	174 A							
Legend:															
Load Classification					Connected Load		Demand Factor		Estimated Demand		Panel Totals				
NC					4992 VA		100.00%		4992 VA						
MTR					62535 VA		100.00%		62535 VA		Total Conn. Load: 67887 VA				
REC					360 VA		100.00%		360 VA		Total Est. Demand: 67887 VA				
											Total Conn. Current: 188 A				
											Total Est. Demand Current: 188 A				
Notes:															

CHURCH ROCK PHASE II FACTORY

CHURCH ROCK, NEW MEXICO

50% CONSTRUCTION DOCUMENTS

FEBRUARY 16, 2022

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